ETS runs for GO and more

Mátyás Aradi

Budapest University of Technology and Economics

12 December 2016

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[euitm\_289060666 3](#__RefHeading__3400_1410421562)

[euitm\_289063000 7](#__RefHeading__3398_1410421562)

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[euitm\_289063002 11](#__RefHeading__3612_14104215622)

[euitm\_289063003 13](#__RefHeading__3612_141042156221)

[euitm\_289063004 15](#__RefHeading__3612_1410421562211)

[euitm\_289063005 17](#__RefHeading__3612_14104215622111)

[euitm\_289063006 19](#__RefHeading__3612_14104215622112)

[euitm\_289063007 21](#__RefHeading__3612_1410421562211211)

[euitm\_289063016 23](#__RefHeading__3612_141042156211)

[euitm\_289063017 25](#__RefHeading__3612_1410421562111)

[euitm\_289063018 27](#__RefHeading__3612_14104215621111)

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[euitm\_289063102 35](#__RefHeading__3612_141042156213)

[euitm\_289063104 37](#__RefHeading__3612_1410421562131)

[euitm\_289063105 39](#__RefHeading__3612_14104215621312)

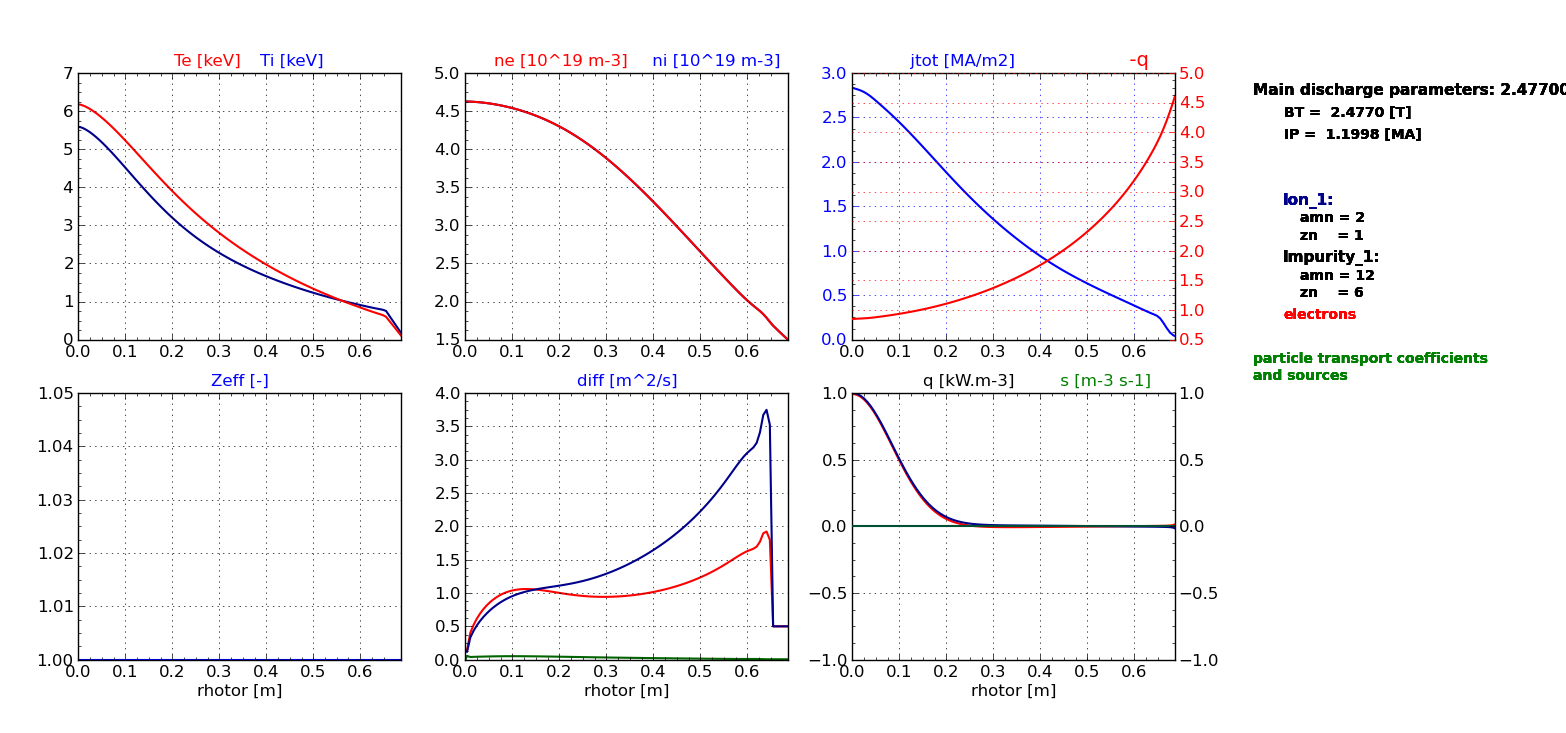
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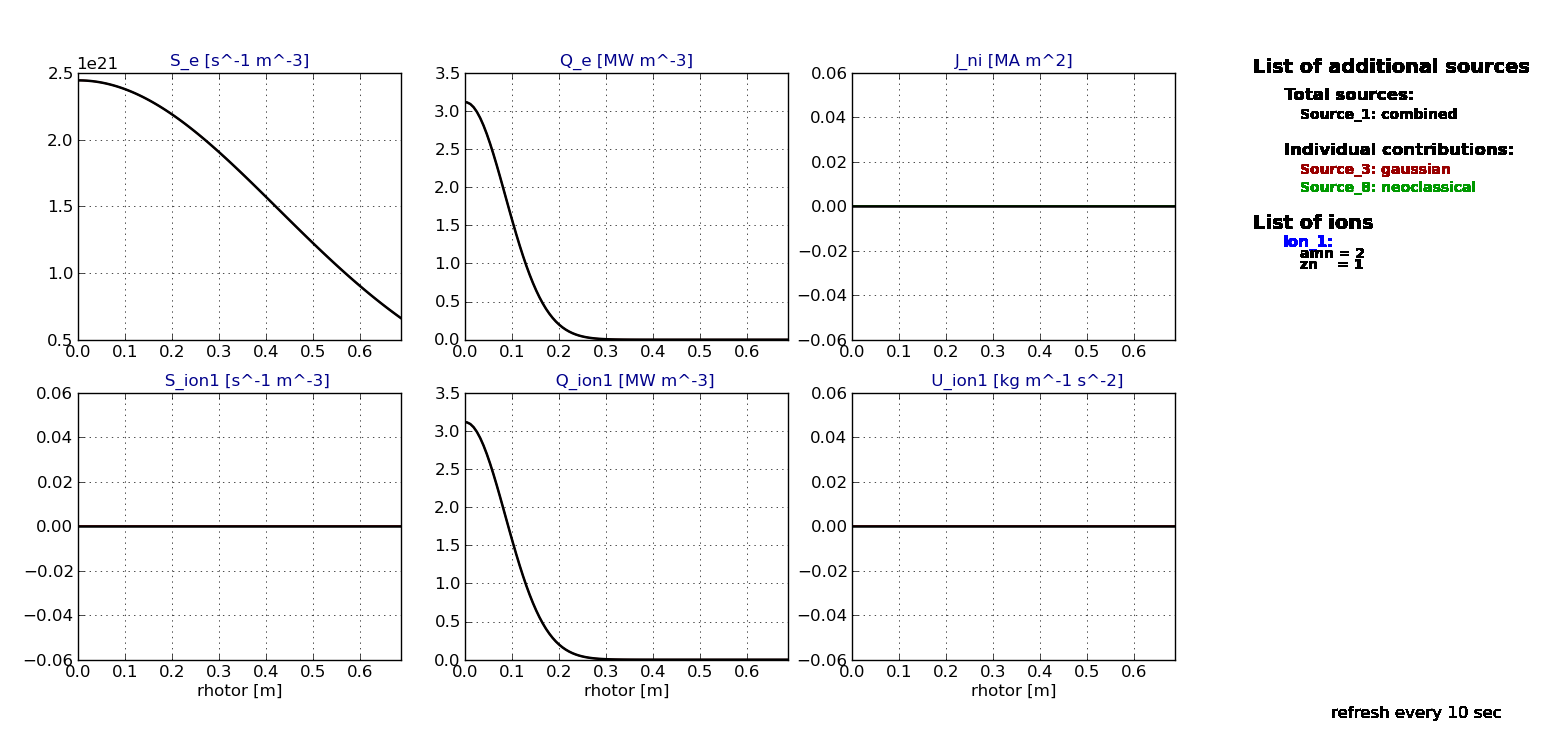
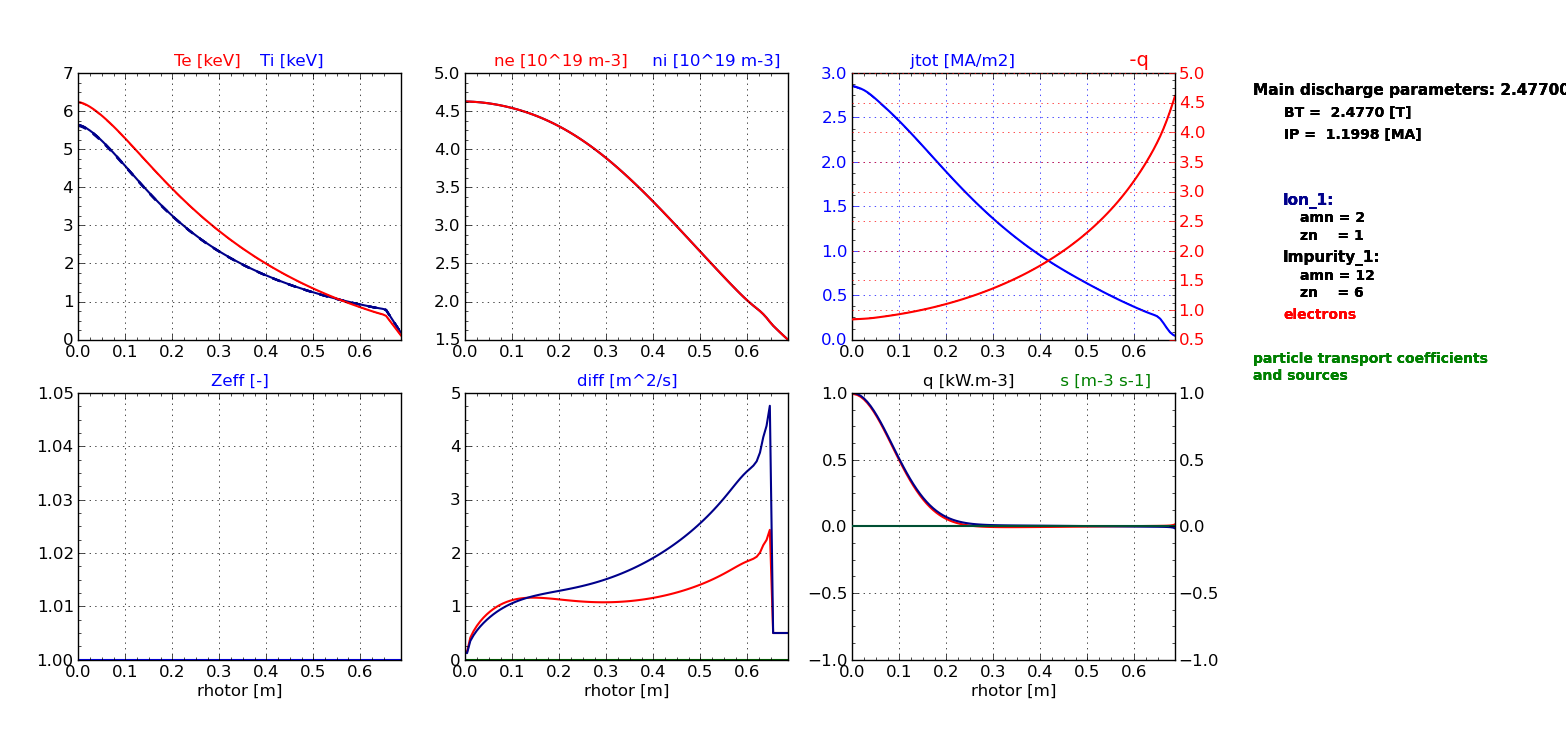
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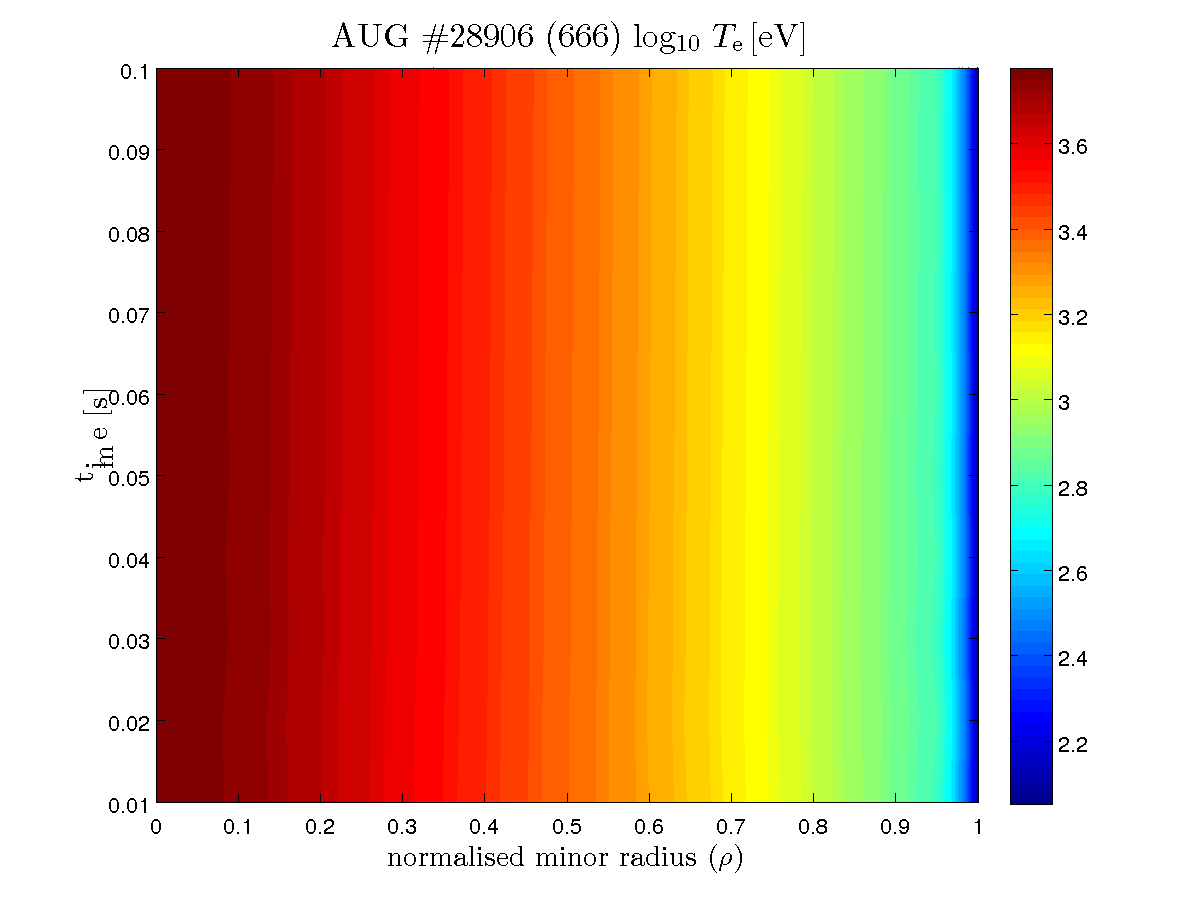
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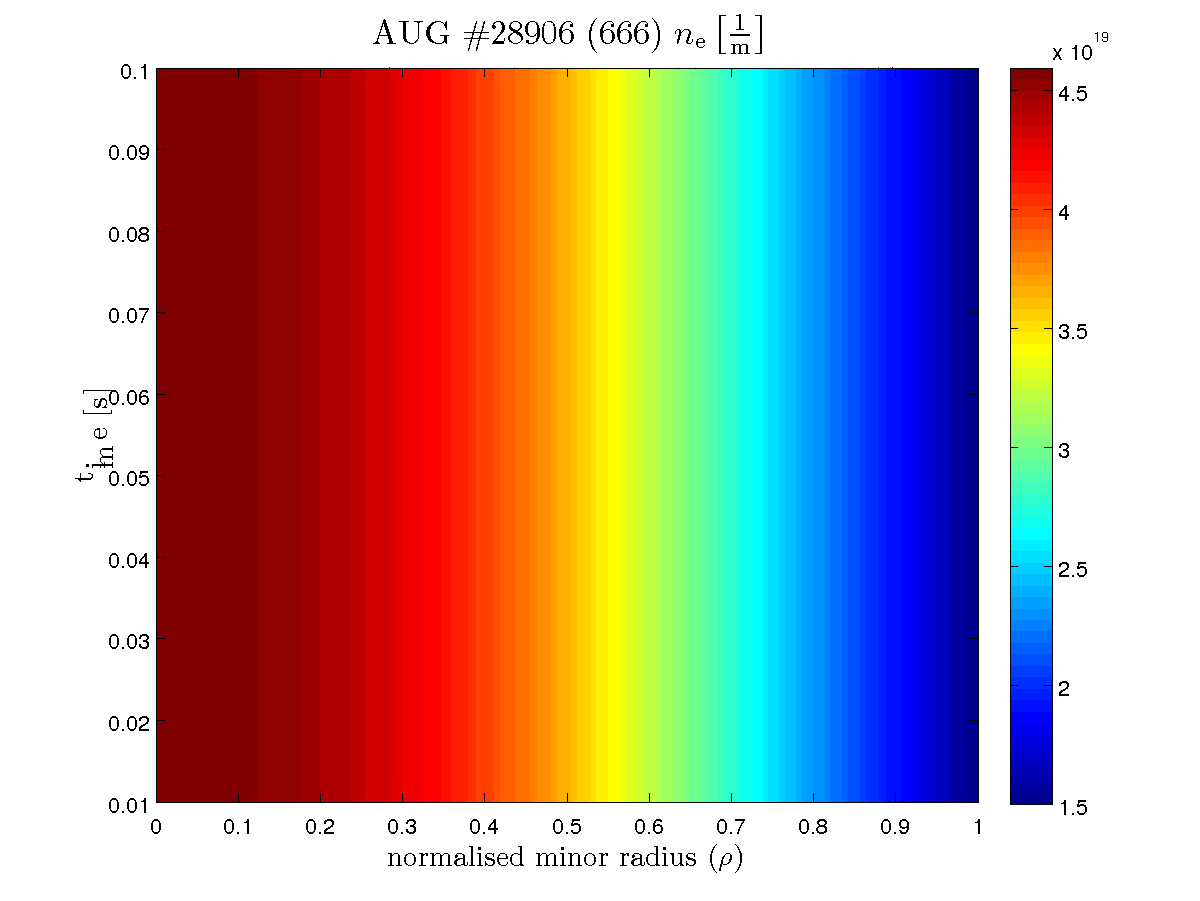
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| |  |  | | --- | --- | | **euitm\_289060666** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  12 December 2016 |  |  |  |  | | --- | --- | --- | | **USER** | maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 7 | (*General parameters* in root) | | **run\_out** | 666 | (*General parameters* in root) | | **tau** | 0.01 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0 | (*Times* in root) | | **tend** | 0.1 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0E6 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | 1.5E6 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.2 | | |  |  | | --- | --- | | heating | | | **WTOT** | 1.5E6 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.2 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 2.0E22 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0E21 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | false | Runaway Fluid turned OFF | | **runafluid\_switch** | 1111 |  |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | | ***Steady state*** ETS run with default parameters | |
| *t* = 0.01 s |

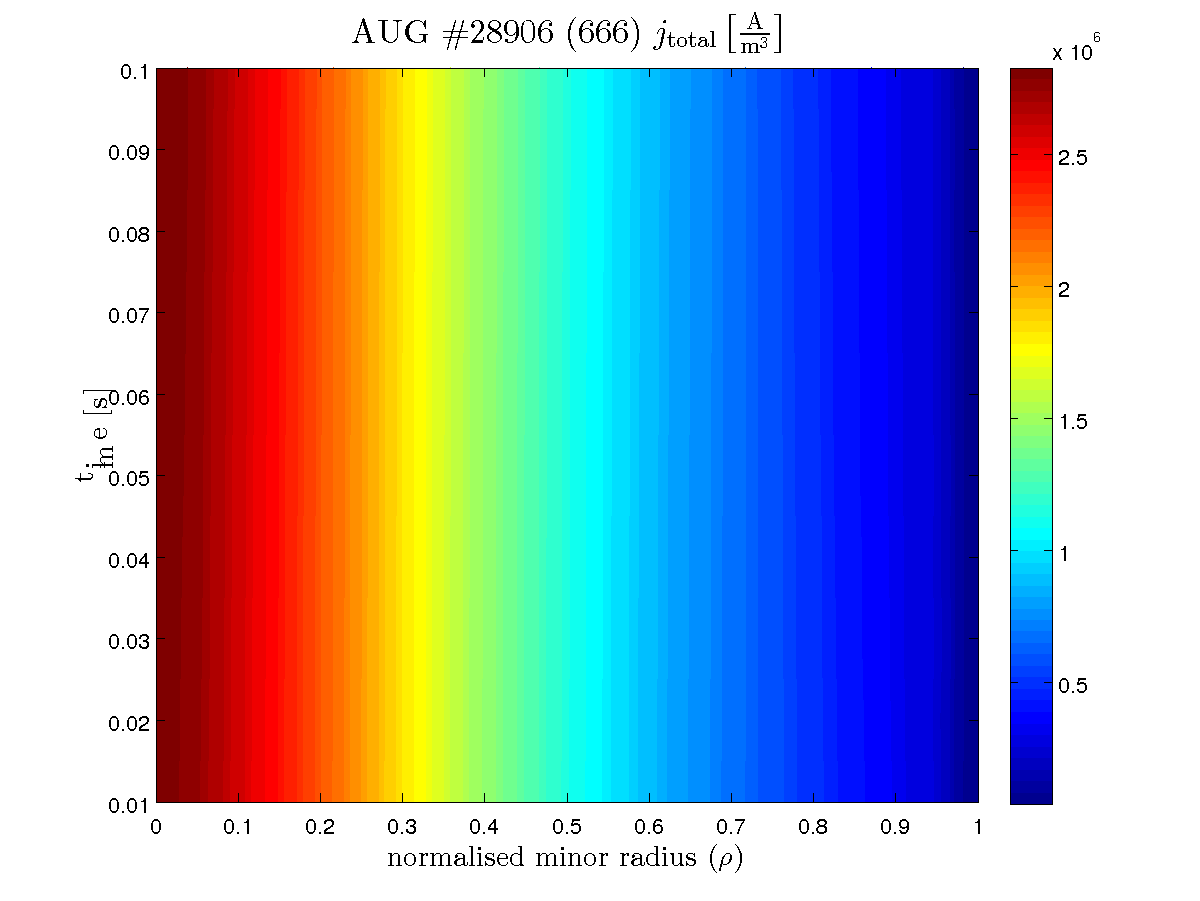


|  |
| --- |
| *t* = 0.1 s |

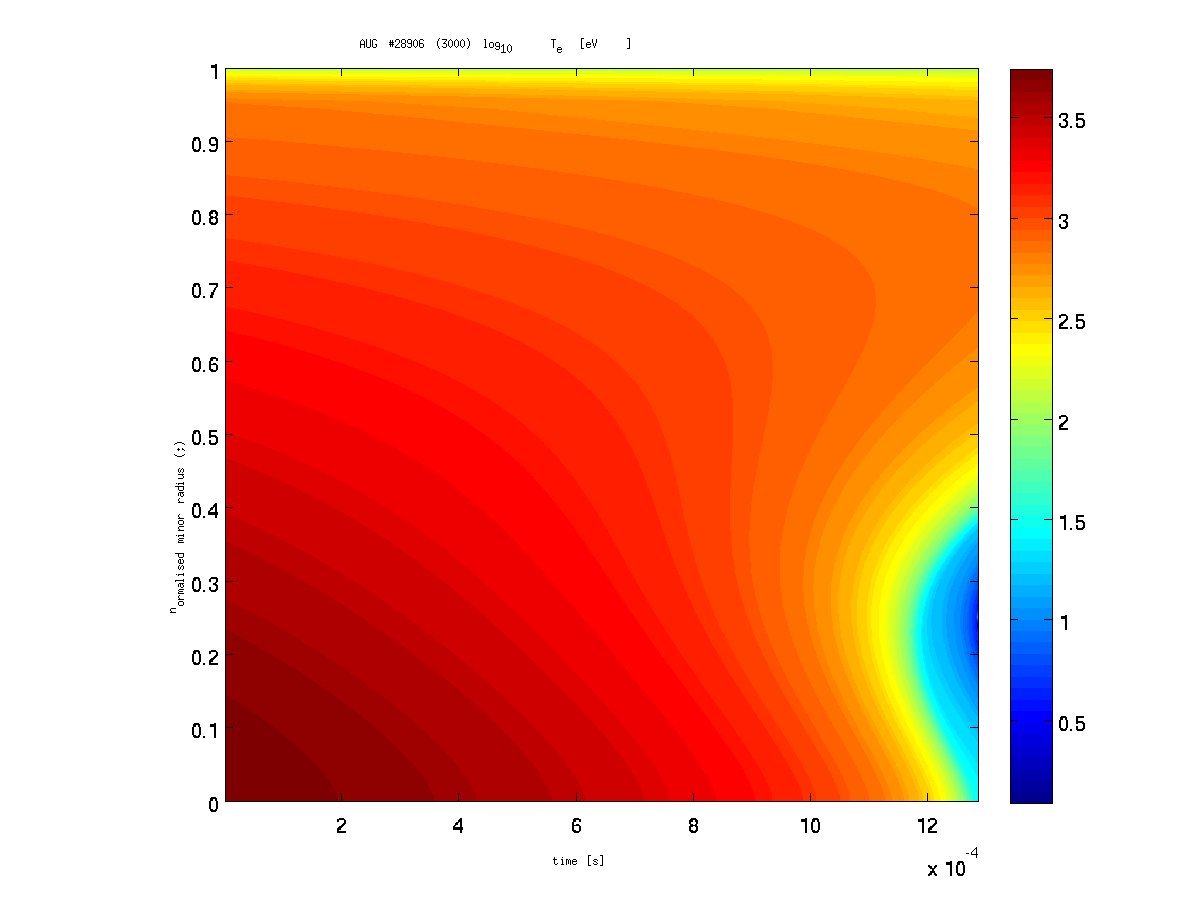


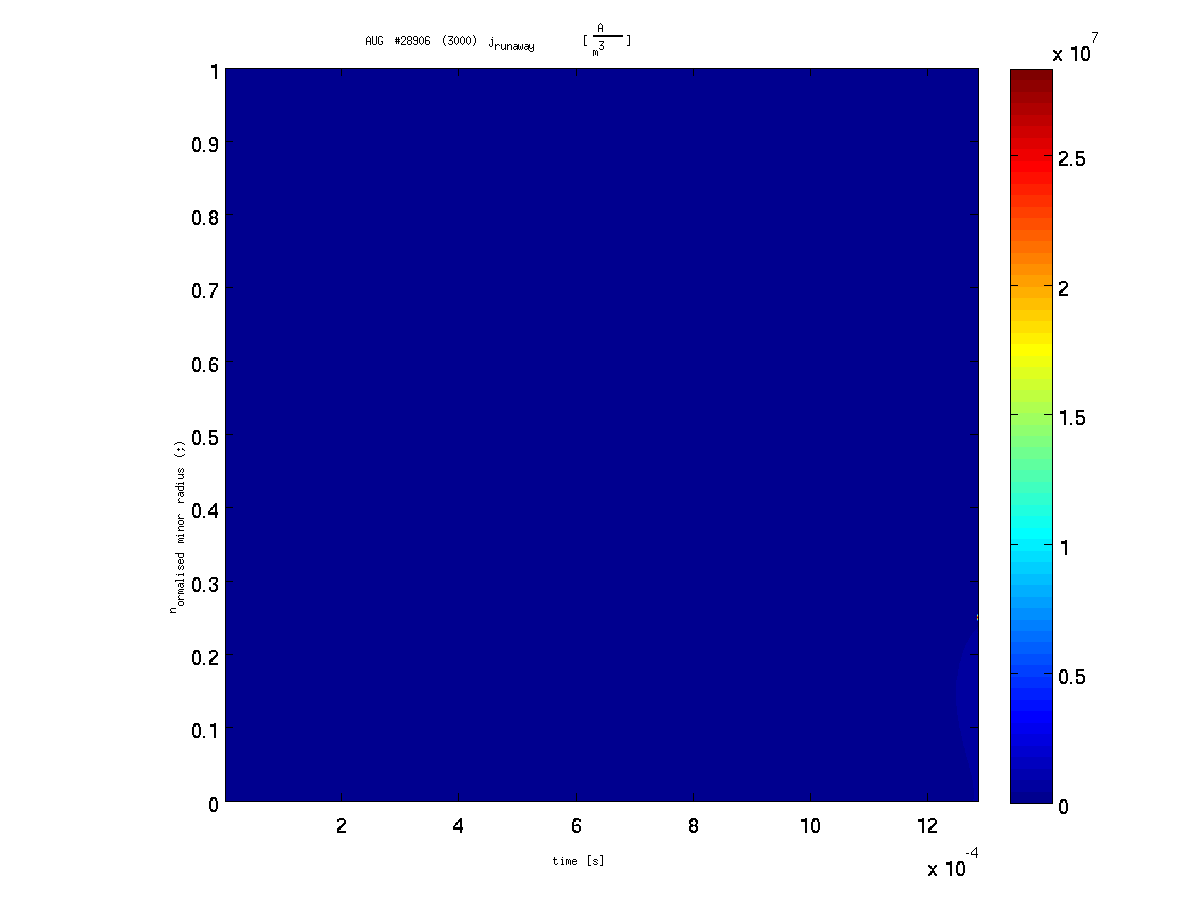




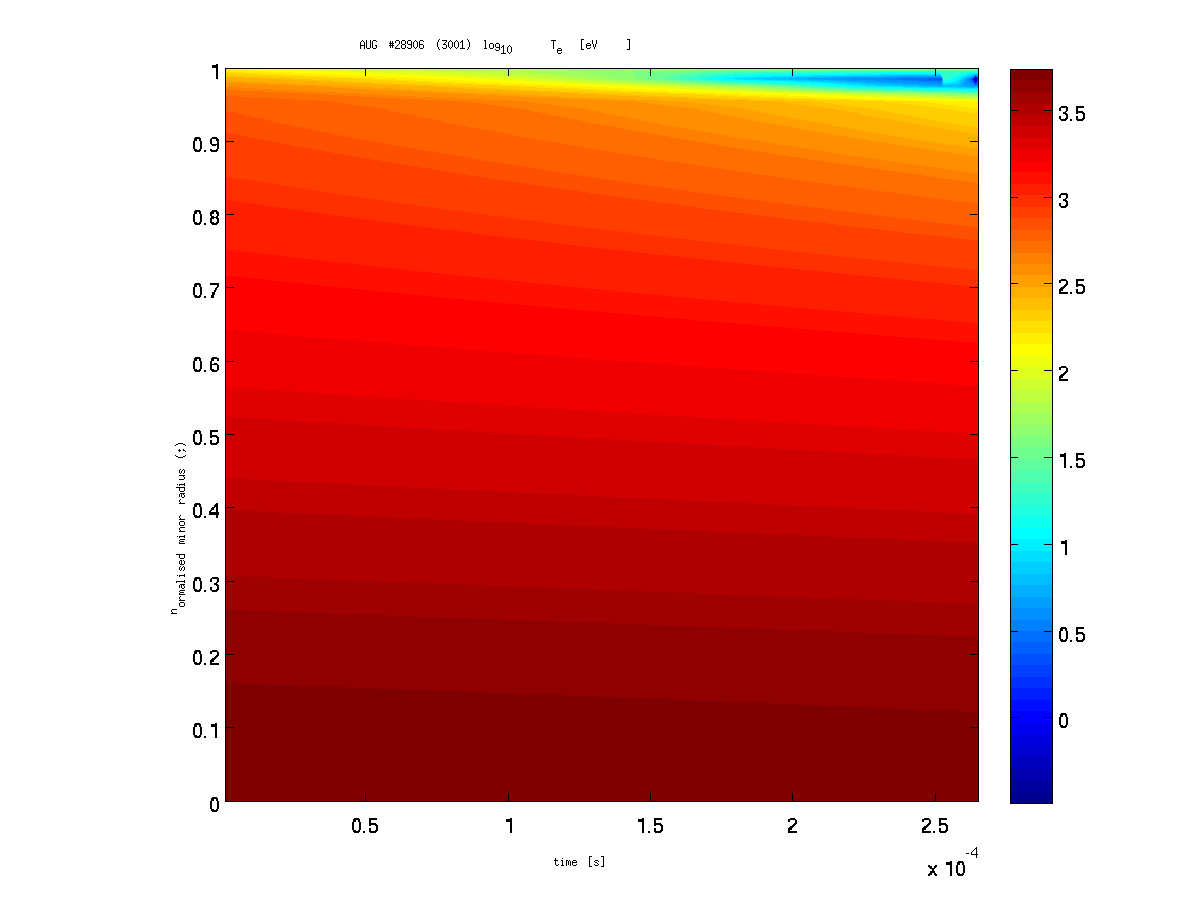


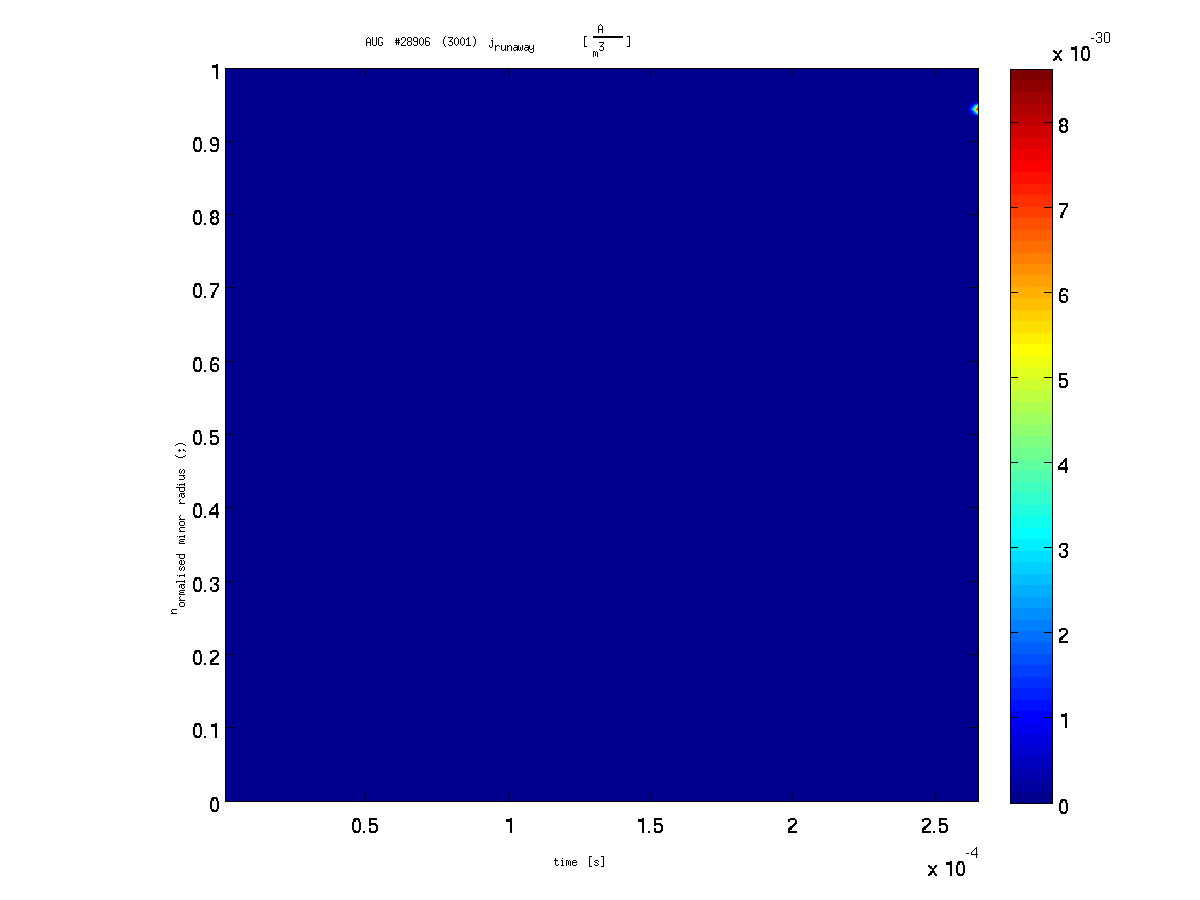
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| |  |  | | --- | --- | | **euitm\_289063000** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  13 December 2016 |  |  |  |  | | --- | --- | --- | | **USER** | maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 7 | (*General parameters* in root) | | **run\_out** | 3000 | (*General parameters* in root) | | **tau** | 1E-6 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0 | (*Times* in root) | | **tend** | 0.00217 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | -1.5E8 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.5 | | |  |  | | --- | --- | | heating | | | **WTOT** | -1.0E8 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.5 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.2.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 311 | Toroidicity: OFF, Avalanche: linear, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | | Heat drain turned on both for ions and electrons  ***crash*** after time = 0.001286 s  runaways are indicated  feeded back to [euitm\_289063019](#euitm_289063019|outline) | |



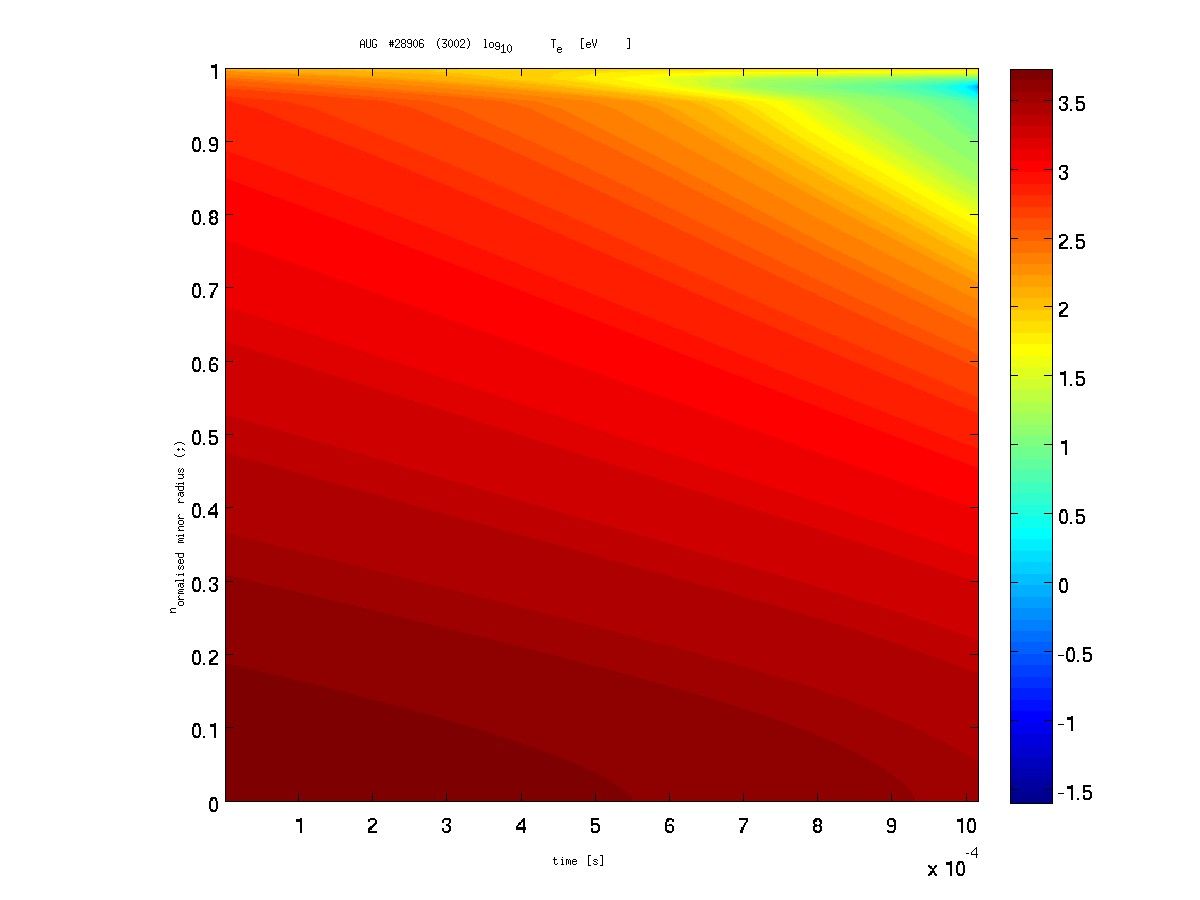


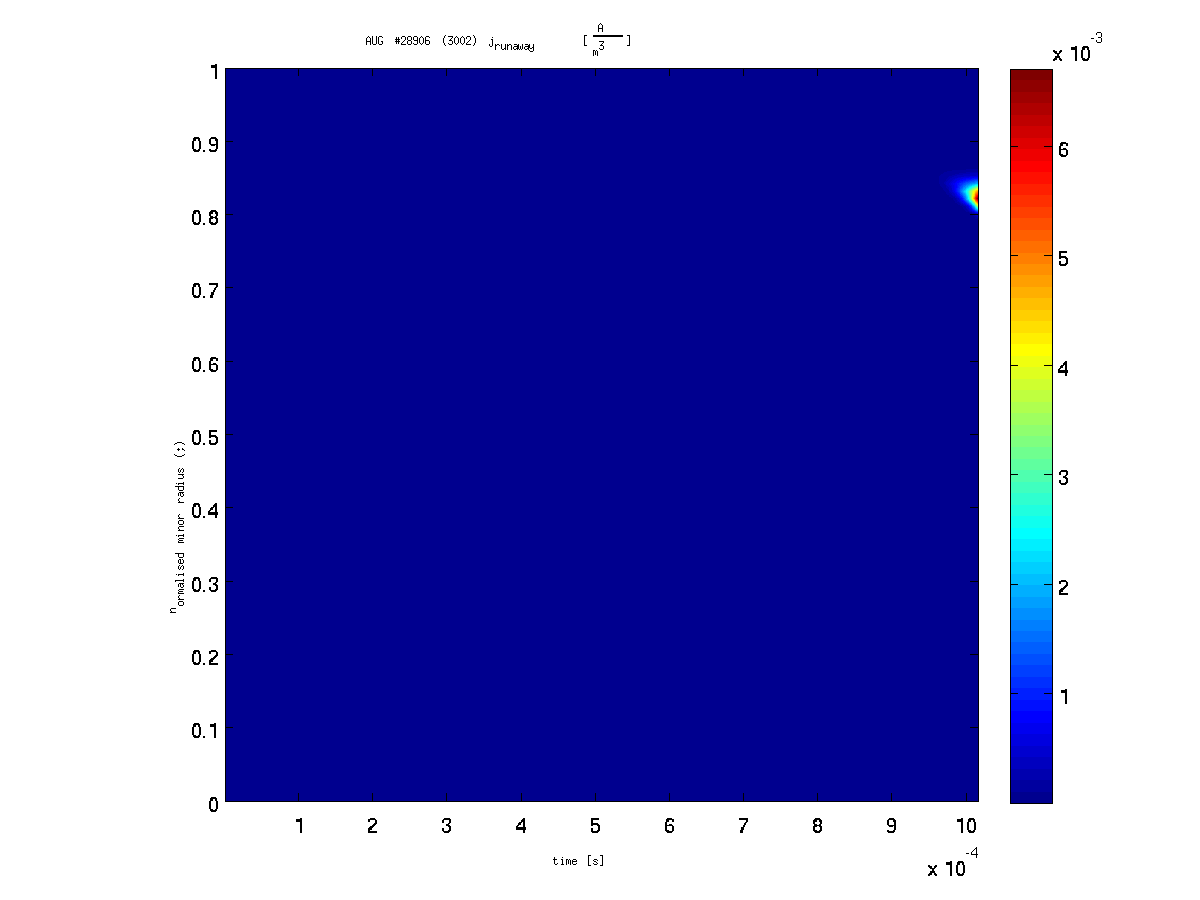
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| |  |  | | --- | --- | | **euitm\_289063001** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  13 December 2016 |  |  |  |  | | --- | --- | --- | | **USER** | maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 7 | (*General parameters* in root) | | **run\_out** | 3001 | (*General parameters* in root) | | **tau** | 1E-6 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0 | (*Times* in root) | | **tend** | 0.00217 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | -1.5E8 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 2.0 | | |  |  | | --- | --- | | heating | | | **WTOT** | -1.0E8 | | **RHEAT** | 0.0 | | **FWHEAT** | 2.0 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.2.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 311 | Toroidicity: OFF, Avalanche: linear, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | | Heat drain turned on both for ions and electrons  ***crash*** after time = 2.65E-4 s  temperature is too low at the edge! | |



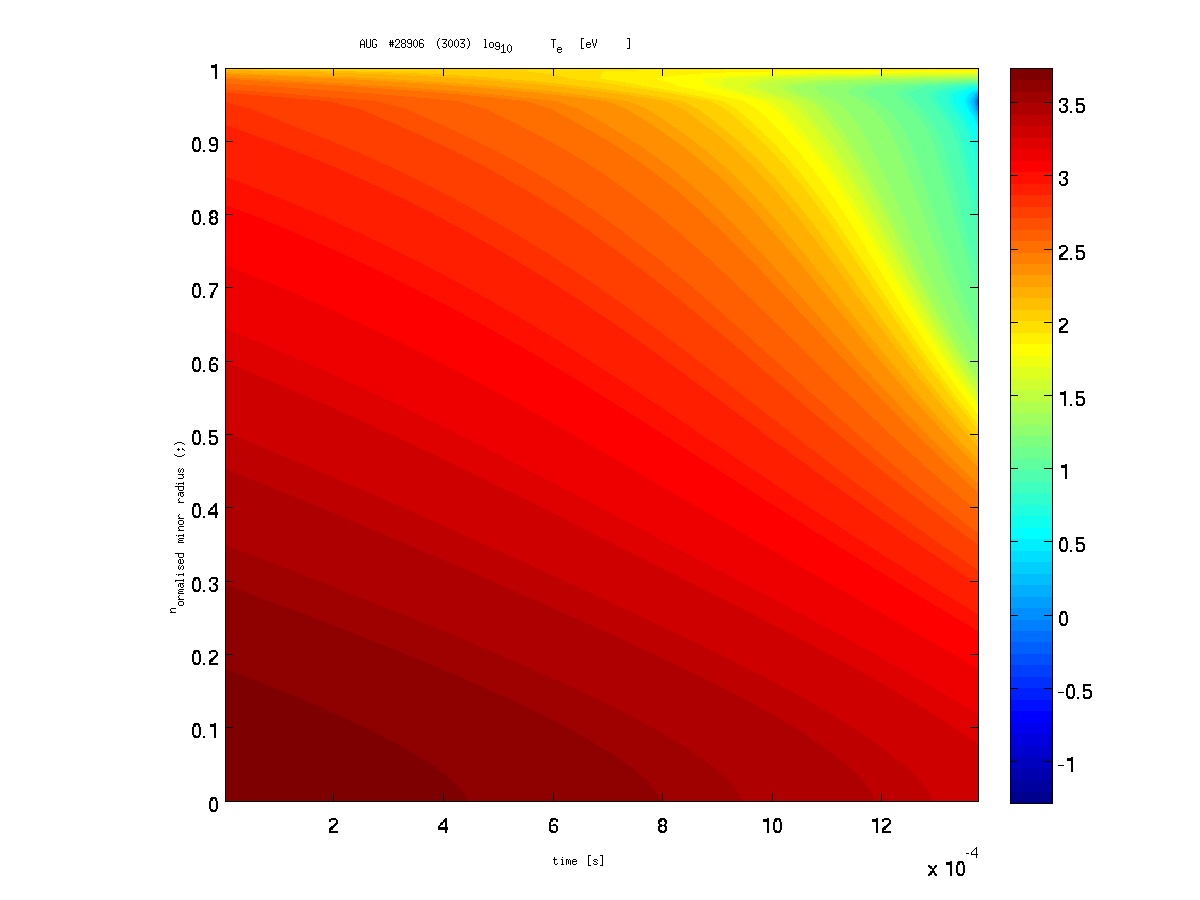


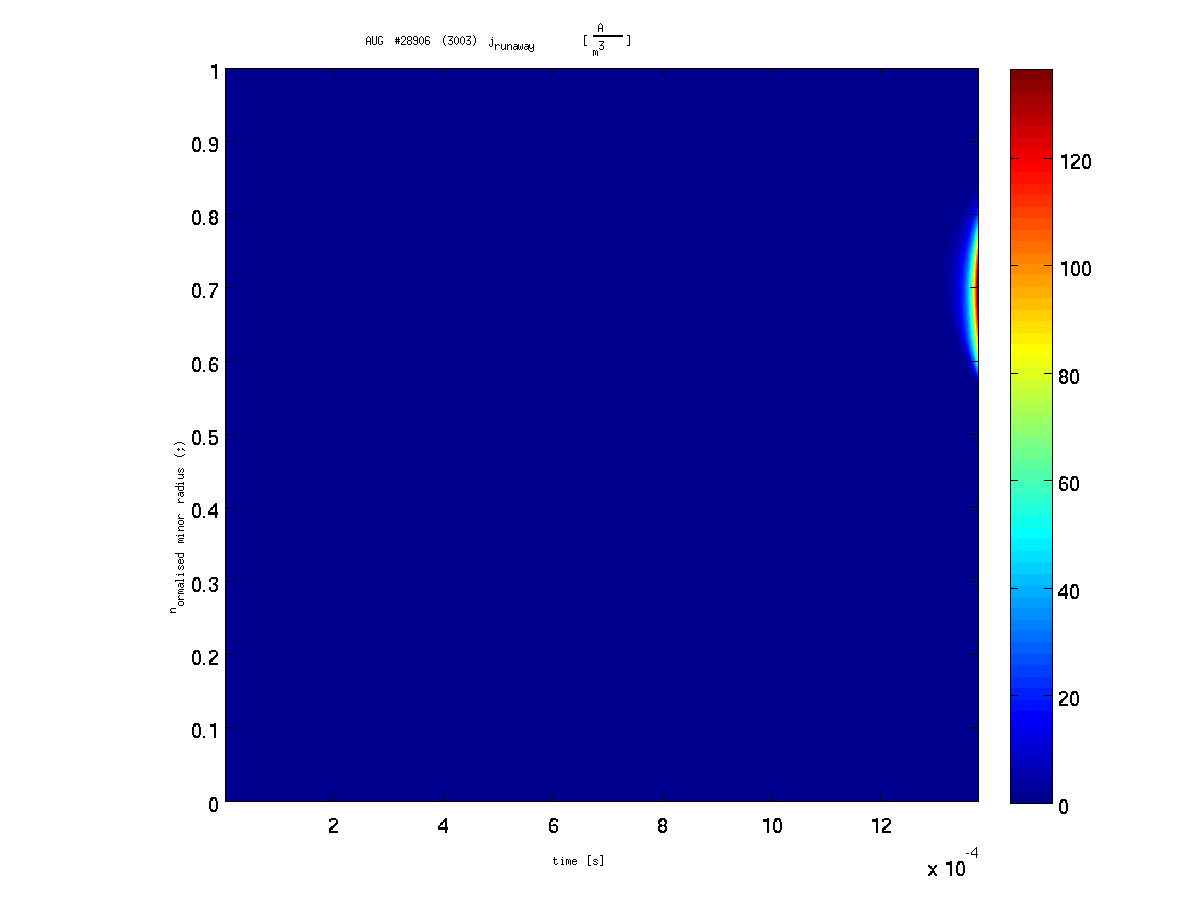
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| |  |  | | --- | --- | | **euitm\_289063002** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  13 December 2016 |  |  |  |  | | --- | --- | --- | | **USER** | maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 7 | (*General parameters* in root) | | **run\_out** | 3002 | (*General parameters* in root) | | **tau** | 1E-6 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0 | (*Times* in root) | | **tend** | 0.00217 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | -1.5E8 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.8 | | |  |  | | --- | --- | | heating | | | **WTOT** | -1.0E8 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.8 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.2.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 311 | Toroidicity: OFF, Avalanche: linear, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | | Heat drain turned on both for ions and electrons  ***crash*** after time = 0.001016 s | |



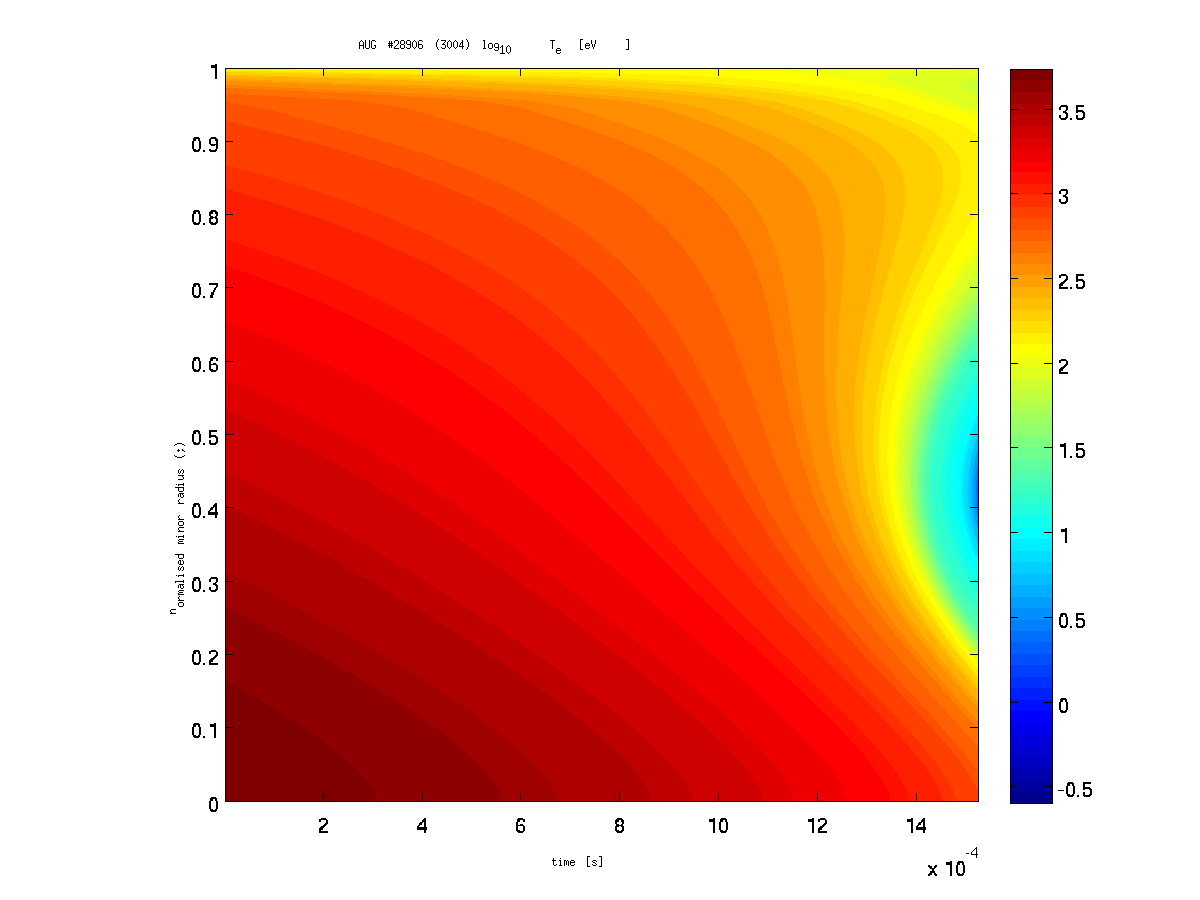


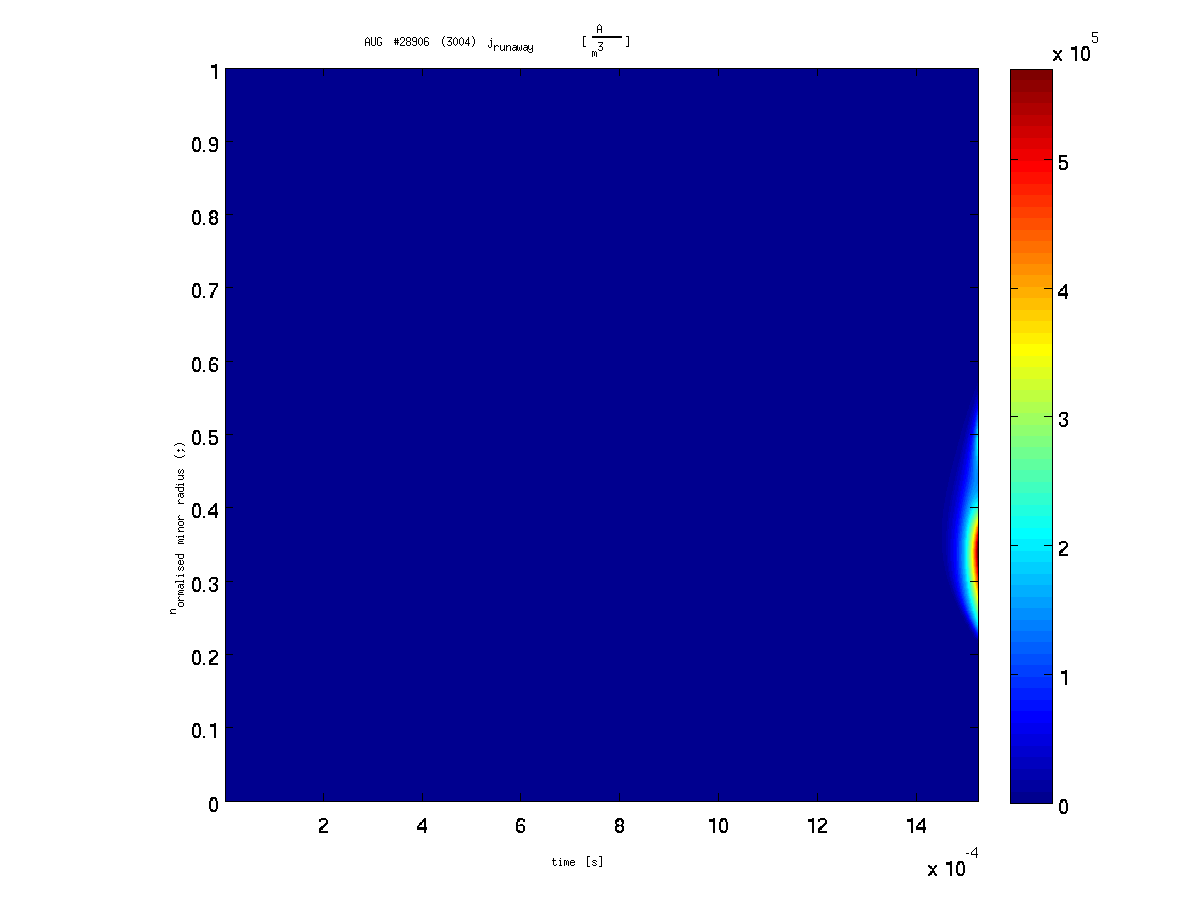
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **euitm\_289063003** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  14 December 2016 |  |  |  |  | | --- | --- | --- | | **USER** | maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 7 | (*General parameters* in root) | | **run\_out** | 3003 | (*General parameters* in root) | | **tau** | 1E-6 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0 | (*Times* in root) | | **tend** | 0.00217 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | -1.5E8 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.7 | | |  |  | | --- | --- | | heating | | | **WTOT** | -1.0E8 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.7 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.2.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 311 | Toroidicity: OFF, Avalanche: linear, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | | Heat drain turned on both for ions and electrons  ***crash*** after time = 0.001376 s | |



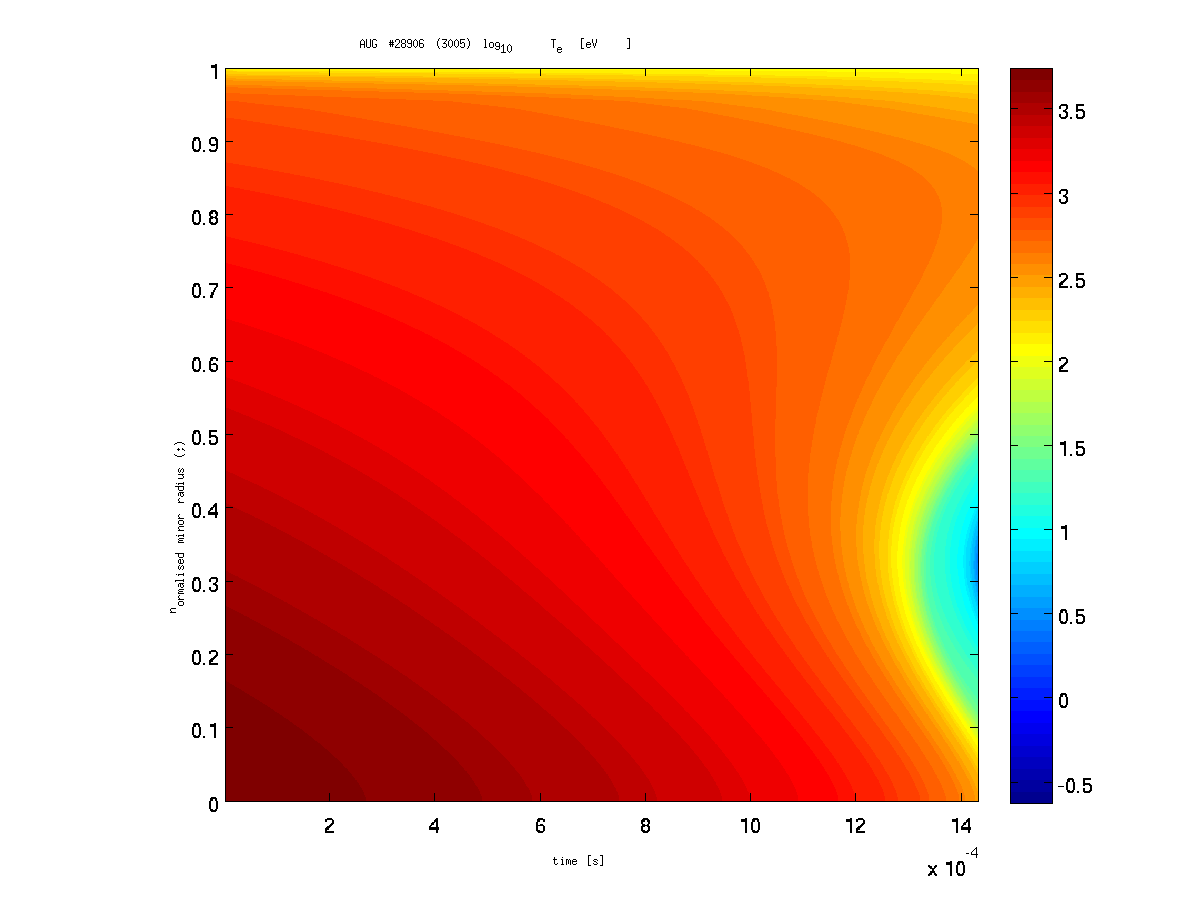


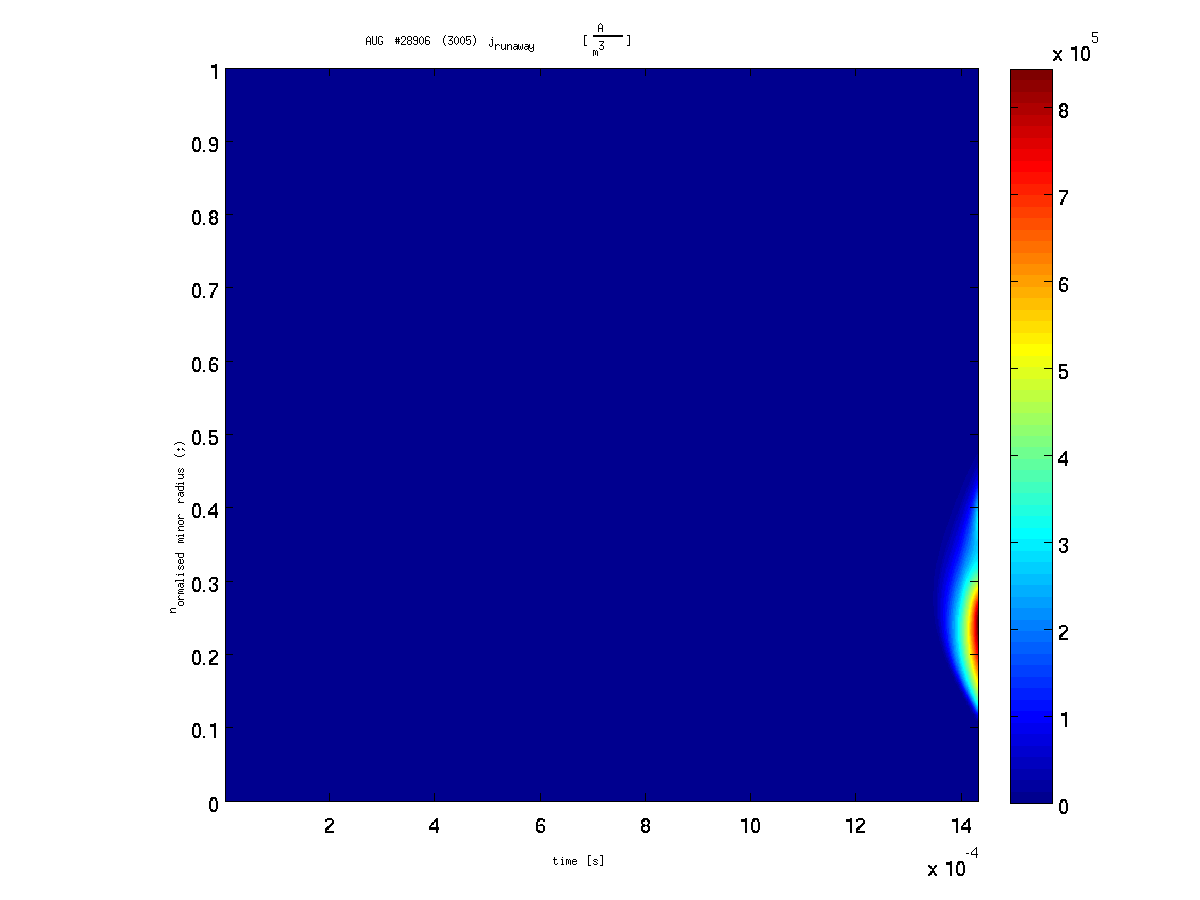
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **euitm\_289063004** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  15 December 2016 |  |  |  |  | | --- | --- | --- | | **USER** | maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 7 | (*General parameters* in root) | | **run\_out** | 3004 | (*General parameters* in root) | | **tau** | 1E-6 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0 | (*Times* in root) | | **tend** | 0.00217 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | -1.5E8 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.6 | | |  |  | | --- | --- | | heating | | | **WTOT** | -1.0E8 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.6 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.2.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 311 | Toroidicity: OFF, Avalanche: linear, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | | Heat drain turned on both for ions and electrons  ***crash*** after time = 0.1525 | |



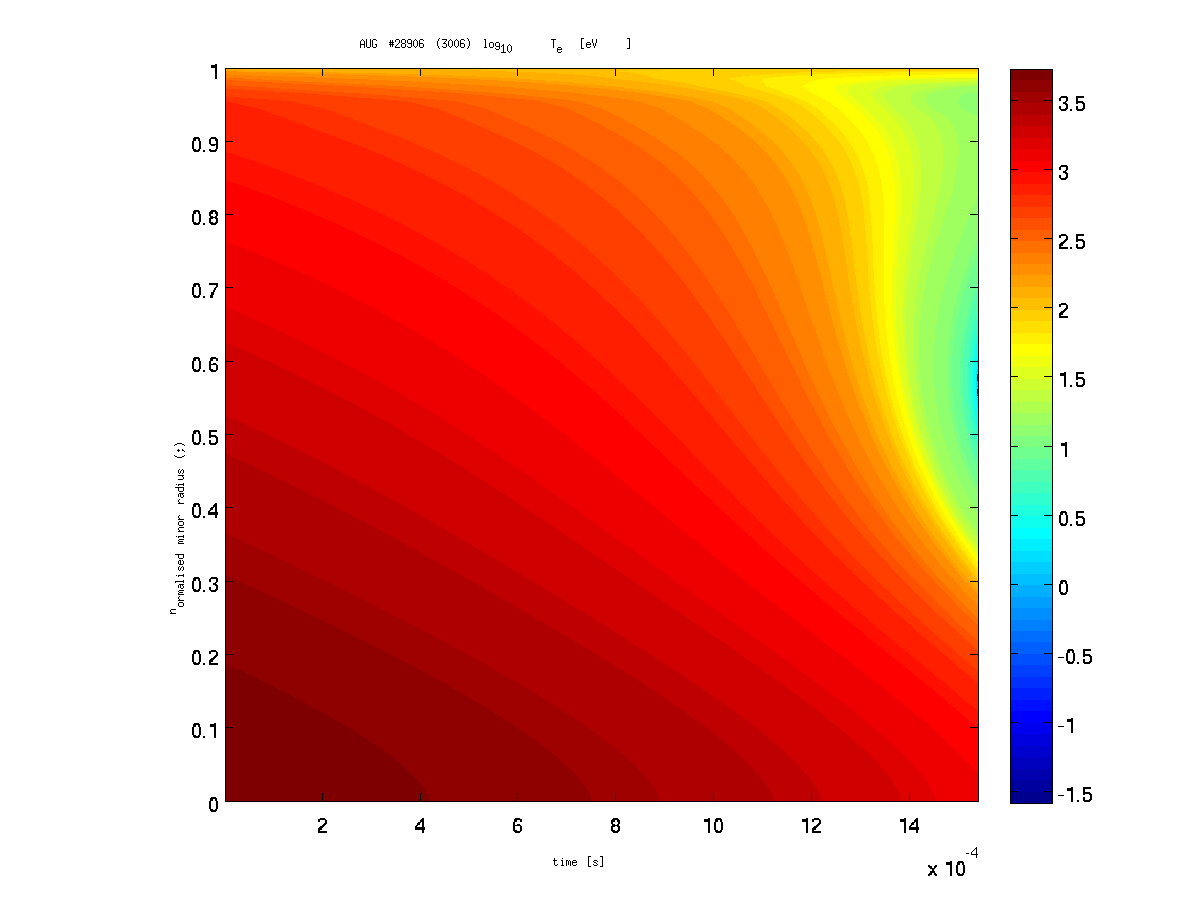


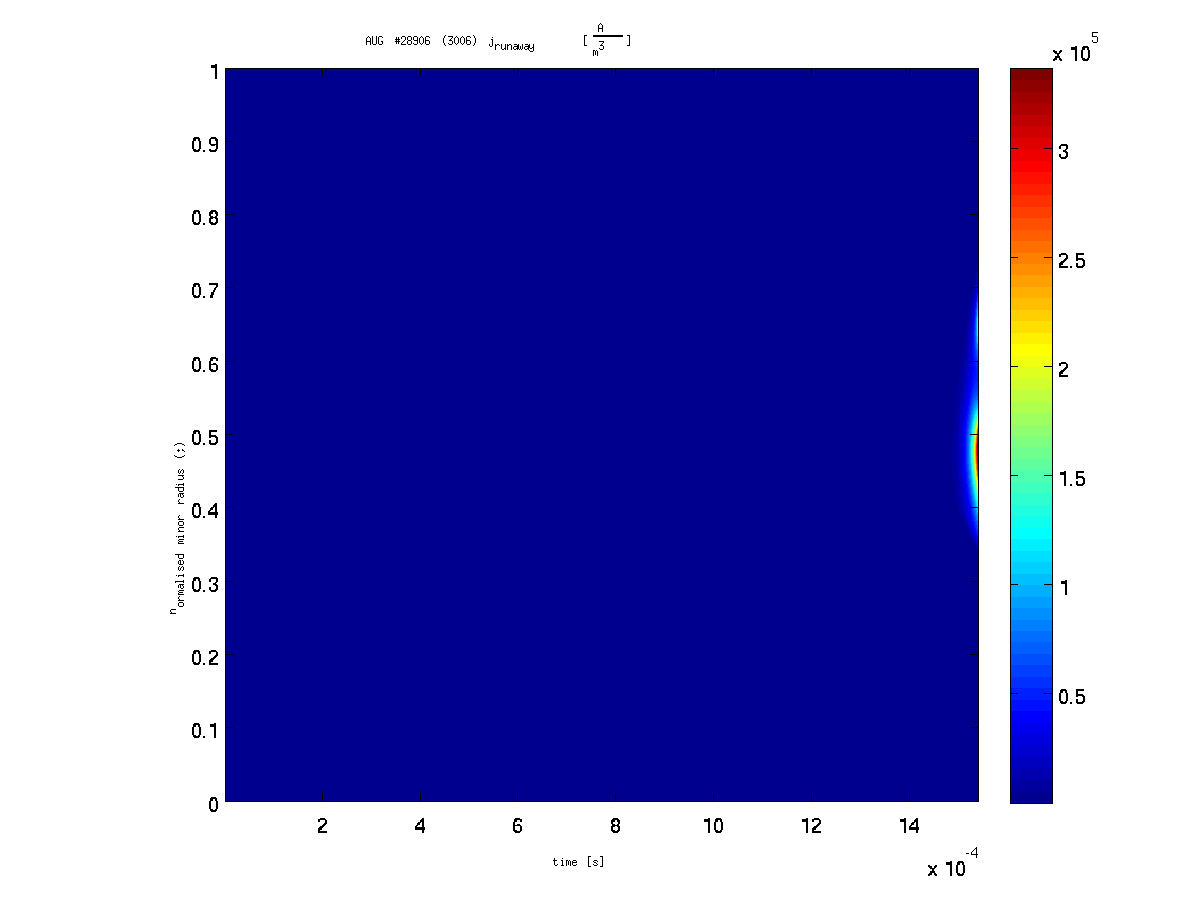
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **euitm\_289063005** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  15 December 2016 |  |  |  |  | | --- | --- | --- | | **USER** | maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 7 | (*General parameters* in root) | | **run\_out** | 3005 | (*General parameters* in root) | | **tau** | 1E-6 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0 | (*Times* in root) | | **tend** | 0.00217 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | -1.5E8 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.55 | | |  |  | | --- | --- | | heating | | | **WTOT** | -1.0E8 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.55 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.2.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 311 | Toroidicity: OFF, Avalanche: linear, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | | Heat drain turned on both for ions and electrons  ***crash*** after time = 0.001432 s | |



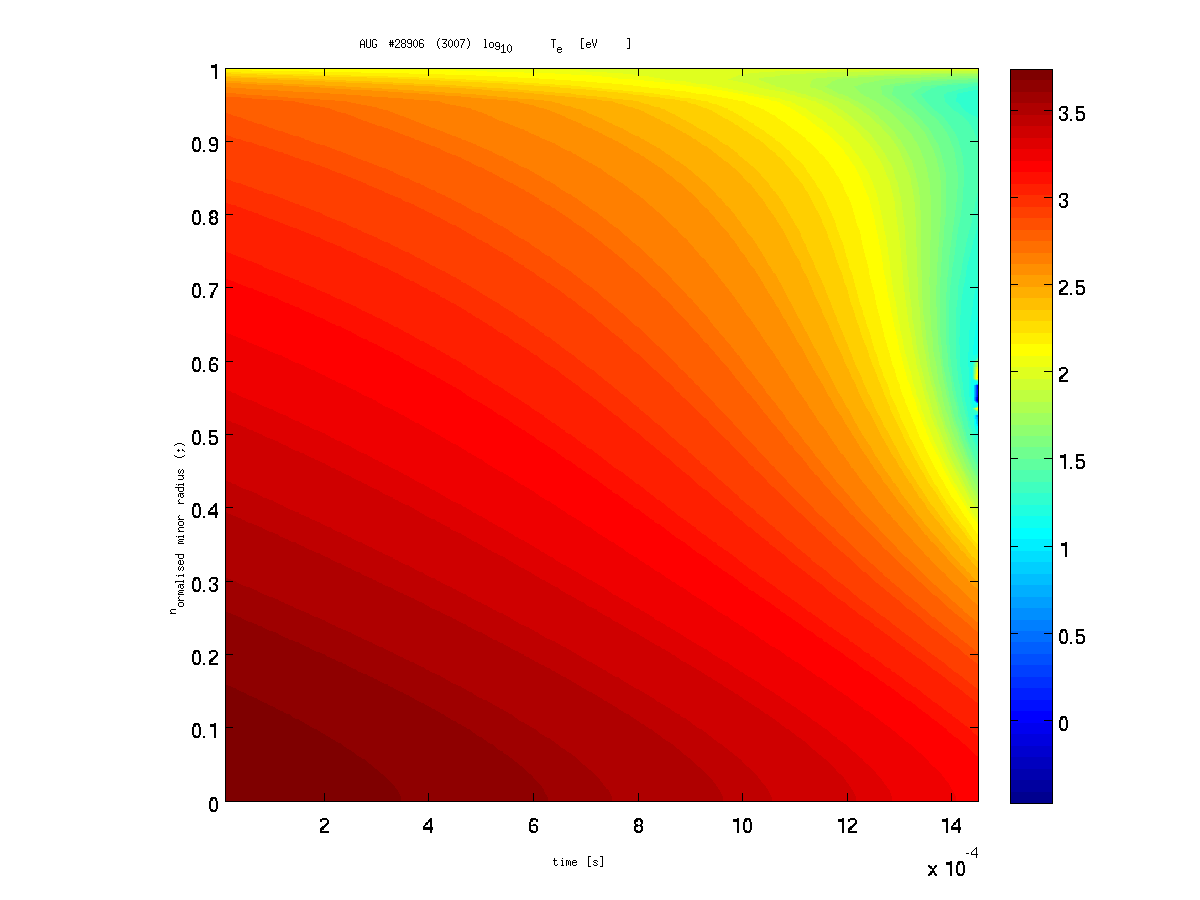


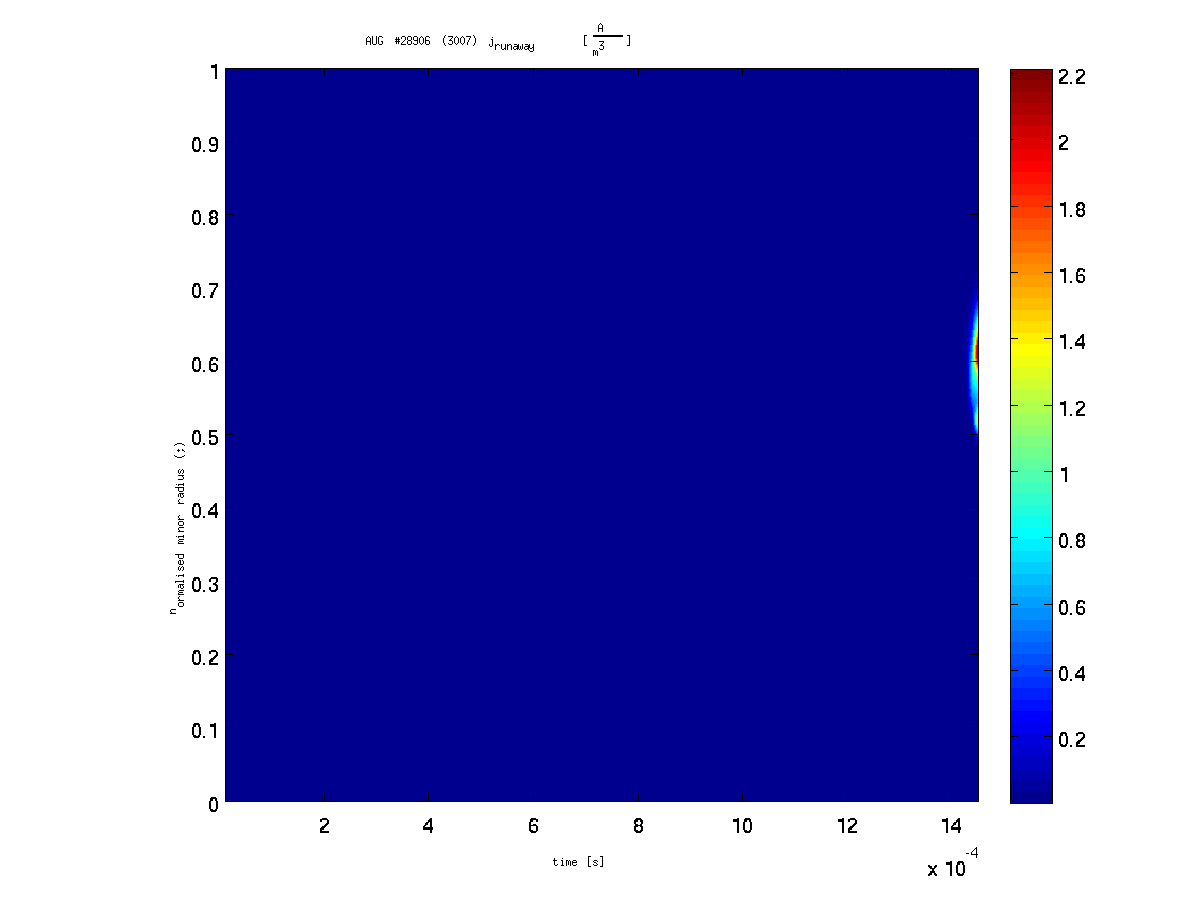
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **euitm\_289063006** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  15 December 2016 |  |  |  |  | | --- | --- | --- | | **USER** | maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 7 | (*General parameters* in root) | | **run\_out** | 3006 | (*General parameters* in root) | | **tau** | 1E-6 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0 | (*Times* in root) | | **tend** | 0.00217 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | -1.5E8 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.65 | | |  |  | | --- | --- | | heating | | | **WTOT** | -1.0E8 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.65 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.2.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 311 | Toroidicity: OFF, Avalanche: linear, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | | Heat drain turned on both for ions and electrons  ***crash*** after time = 0.001540 s  feeded back to [euitm\_289063016](#_toc3897) | |



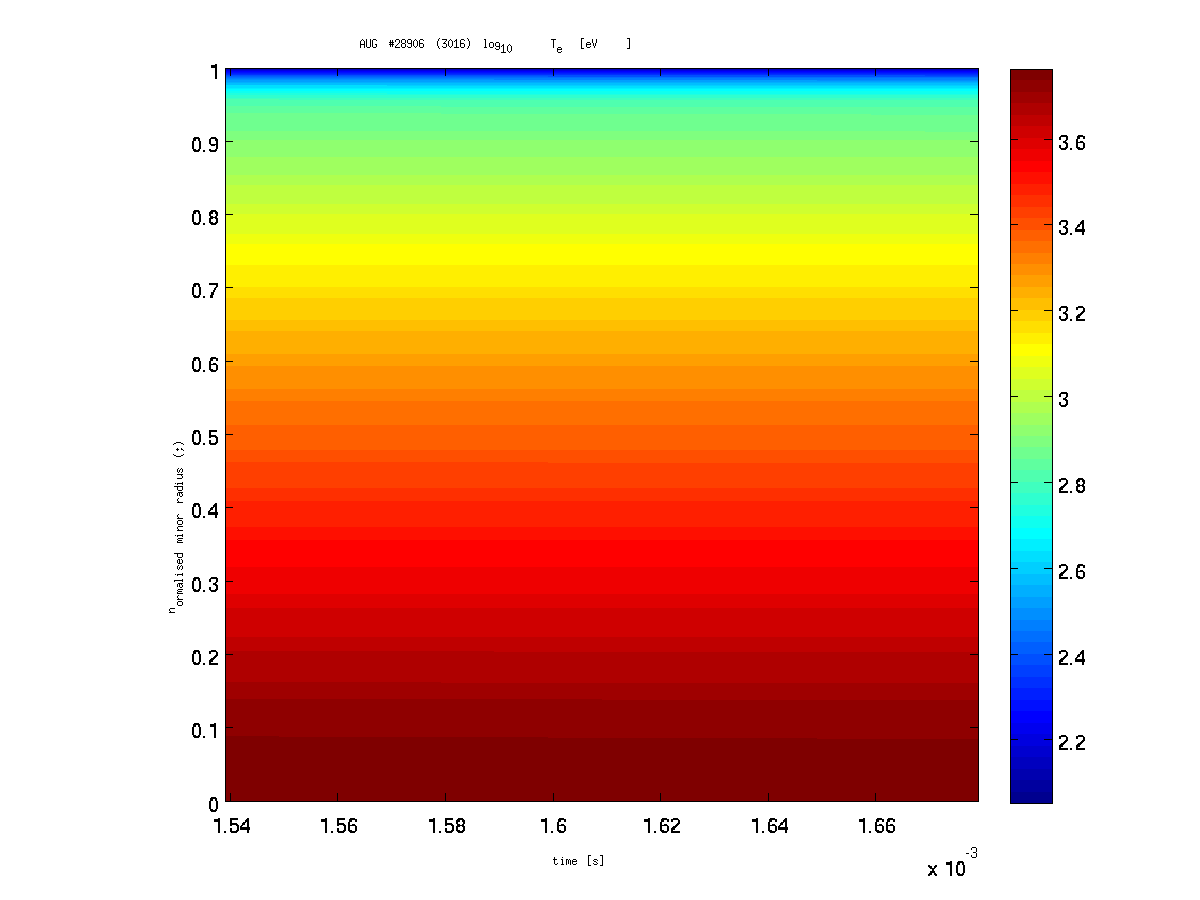


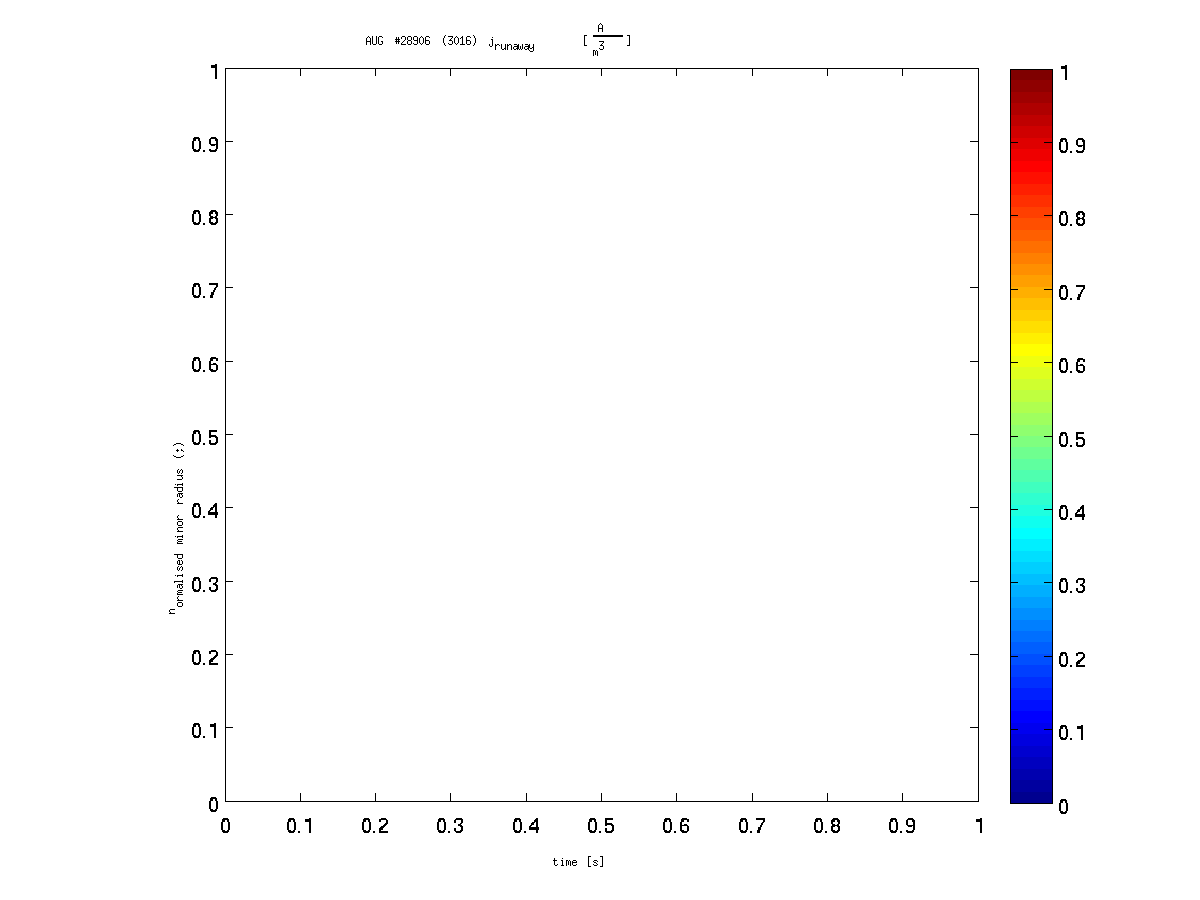
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **euitm\_289063007** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  15 December 2016 |  |  |  |  | | --- | --- | --- | | **USER** | maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 7 | (*General parameters* in root) | | **run\_out** | 3007 | (*General parameters* in root) | | **tau** | 1E-5 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0 | (*Times* in root) | | **tend** | 0.00217 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | -1.5E8 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.65 | | |  |  | | --- | --- | | heating | | | **WTOT** | -1.0E8 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.65 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.2.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 311 | Toroidicity: OFF, Avalanche: linear, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | | Heat drain turned on both for ions and electrons  ***crash*** after time = 0.00145 s  feeded back to [euitm\_289063017](#_toc4357), [euitm\_289063018](#_toc4357) | |





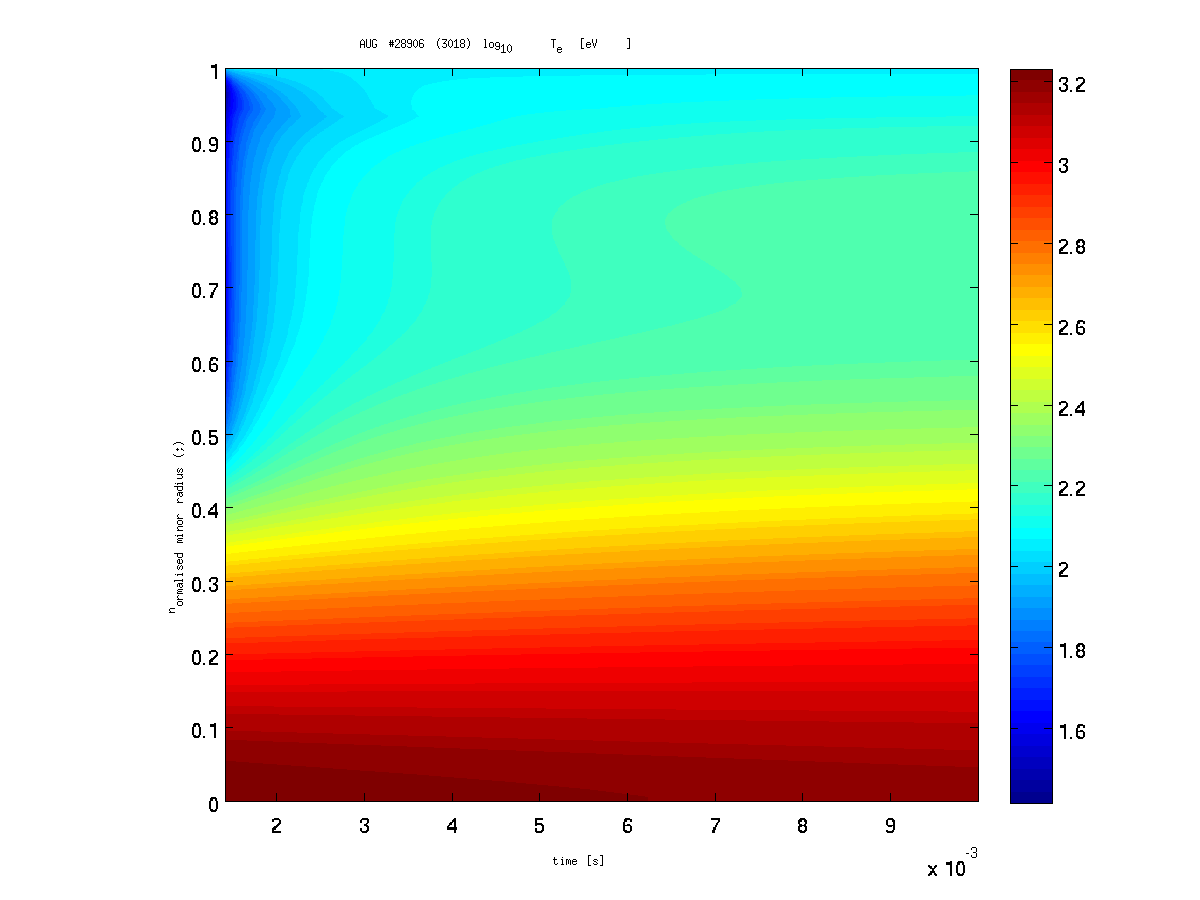
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **euitm\_289063016** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  19 December 2016 |  |  |  |  | | --- | --- | --- | | **USER** | maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 3006 **(NOT EXIST!)** | (*General parameters* in root) | | **run\_out** | TEMPLATE | (*General parameters* in root) | | **tau** | 1E-5 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0.001529 | (*Times* in root) | | **tend** | 0.1 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | 0.0 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.2 | | |  |  | | --- | --- | | heating | | | **WTOT** | 0.0 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.2 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.2.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 311 | Toroidicity: OFF, Avalanche: linear, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | | Input from [euitm\_289063006](#_toc2739), heat drain turned off  **ERROR in READING CPOs at INPUT! NO OUTPUT!** | |

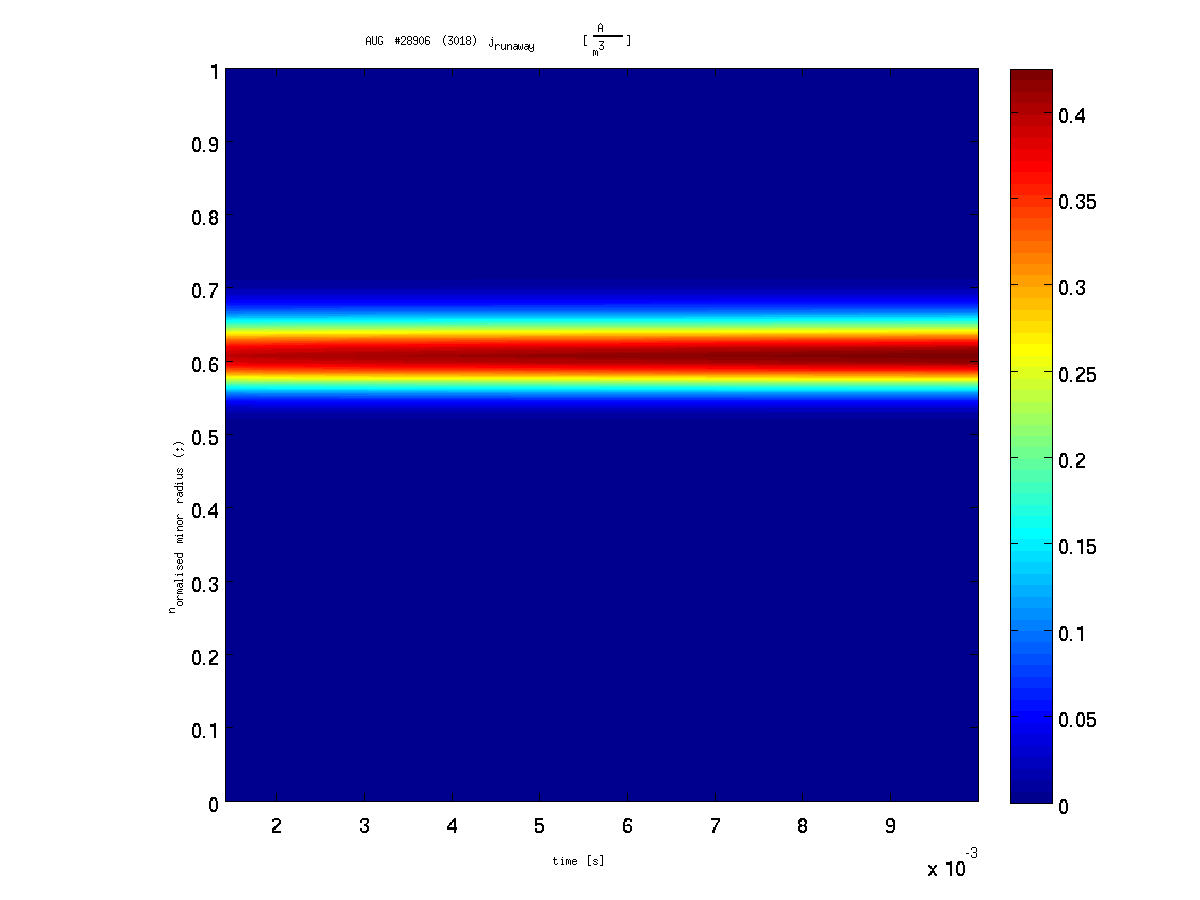




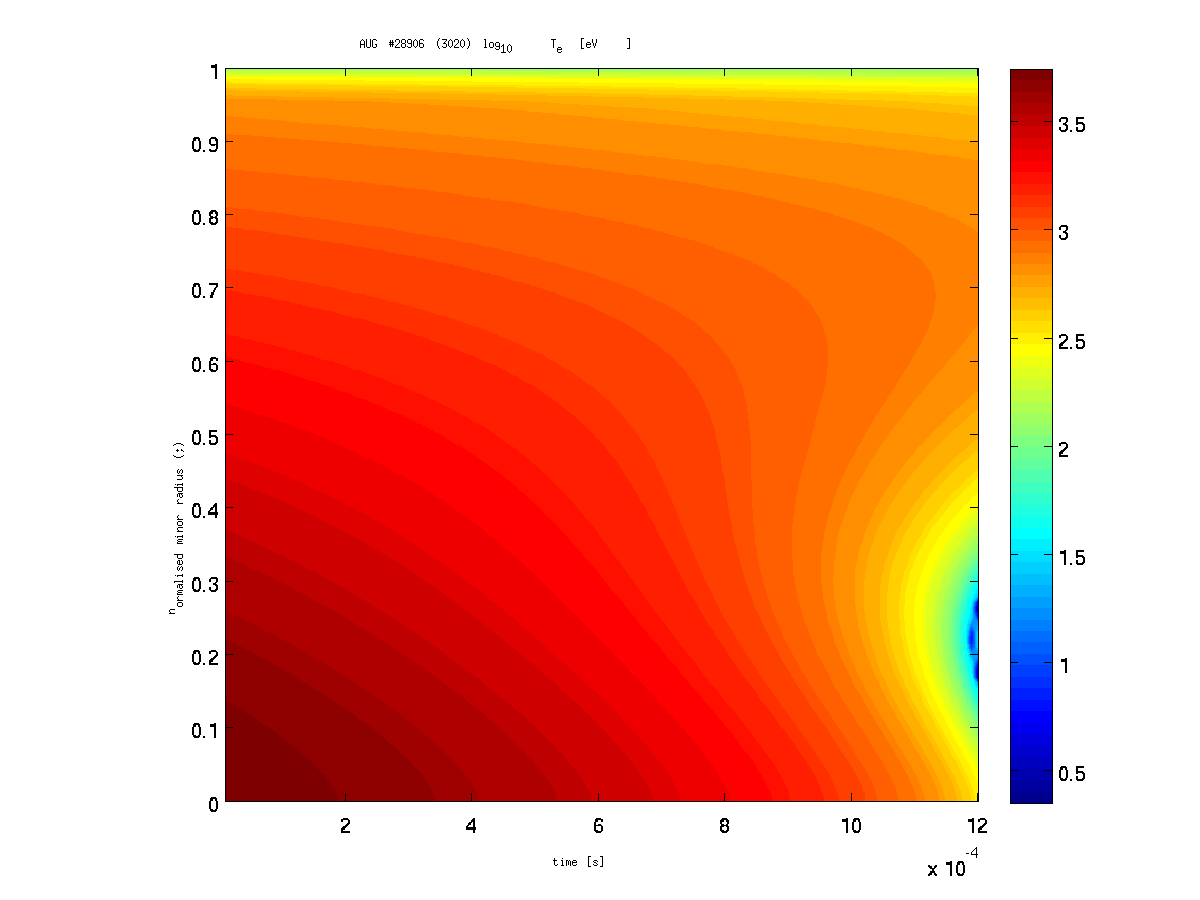
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **euitm\_289063017** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  19 December 2016 |  |  |  |  | | --- | --- | --- | | **USER** | maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 3007 | (*General parameters* in root) | | **run\_out** | 3017 | (*General parameters* in root) | | **tau** | 1E-5 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0.0014 | (*Times* in root) | | **tend** | 0.1 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | 0.0 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.2 | | |  |  | | --- | --- | | heating | | | **WTOT** | 0.0 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.2 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.2.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 311 | Toroidicity: OFF, Avalanche: linear, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | | Input from [euitm\_289063007](#_toc3505), heat drain turned off  **hdf5 converter is crashing because of data size!** | |

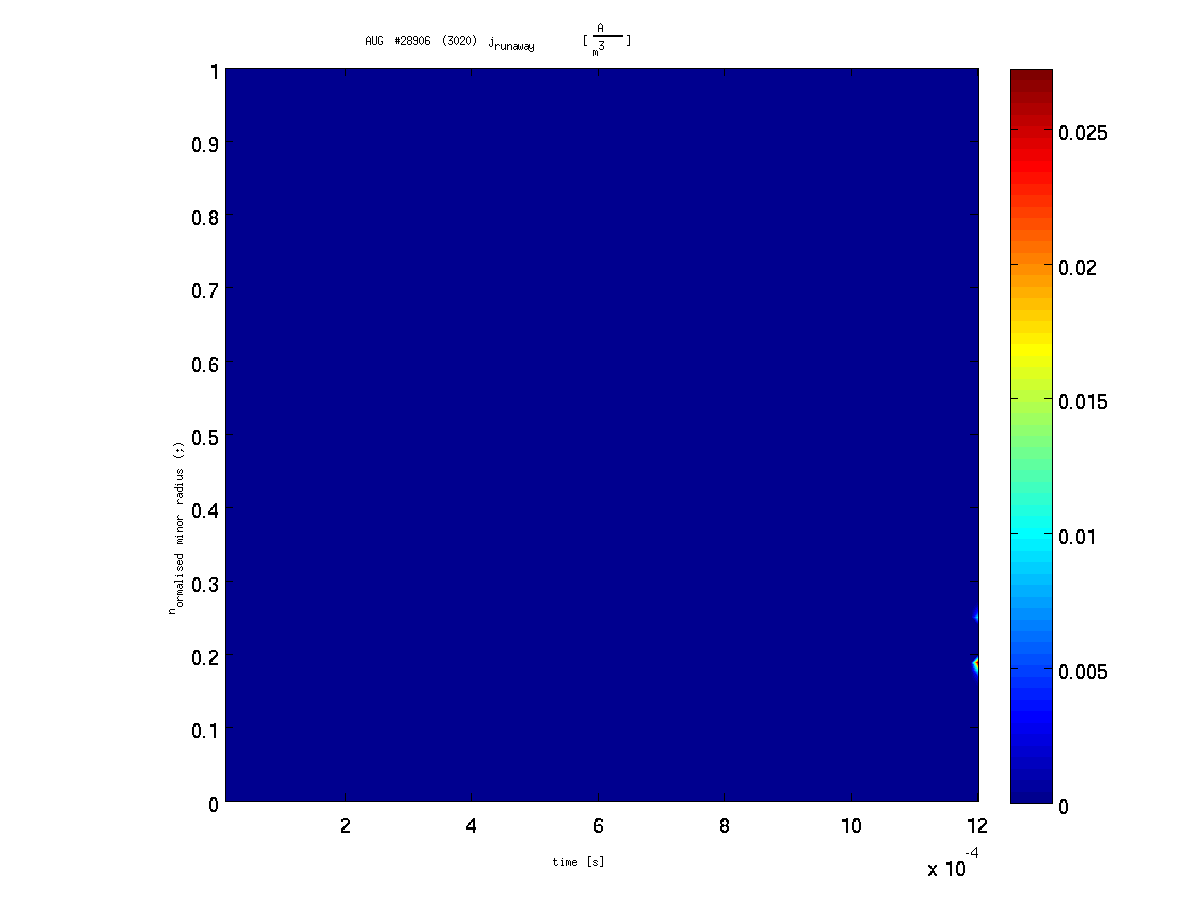
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **euitm\_289063018** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  21 December 2016 |  |  |  |  | | --- | --- | --- | | **USER** | maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 3007 | (*General parameters* in root) | | **run\_out** | 3018 | (*General parameters* in root) | | **tau** | 1E-5 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0.0014 | (*Times* in root) | | **tend** | 0.01 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | 0.0 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.2 | | |  |  | | --- | --- | | heating | | | **WTOT** | 0.0 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.2 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.2.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 311 | Toroidicity: OFF, Avalanche: linear, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | | Input from [euitm\_289063007](#_toc3505), heat drain turned off | |



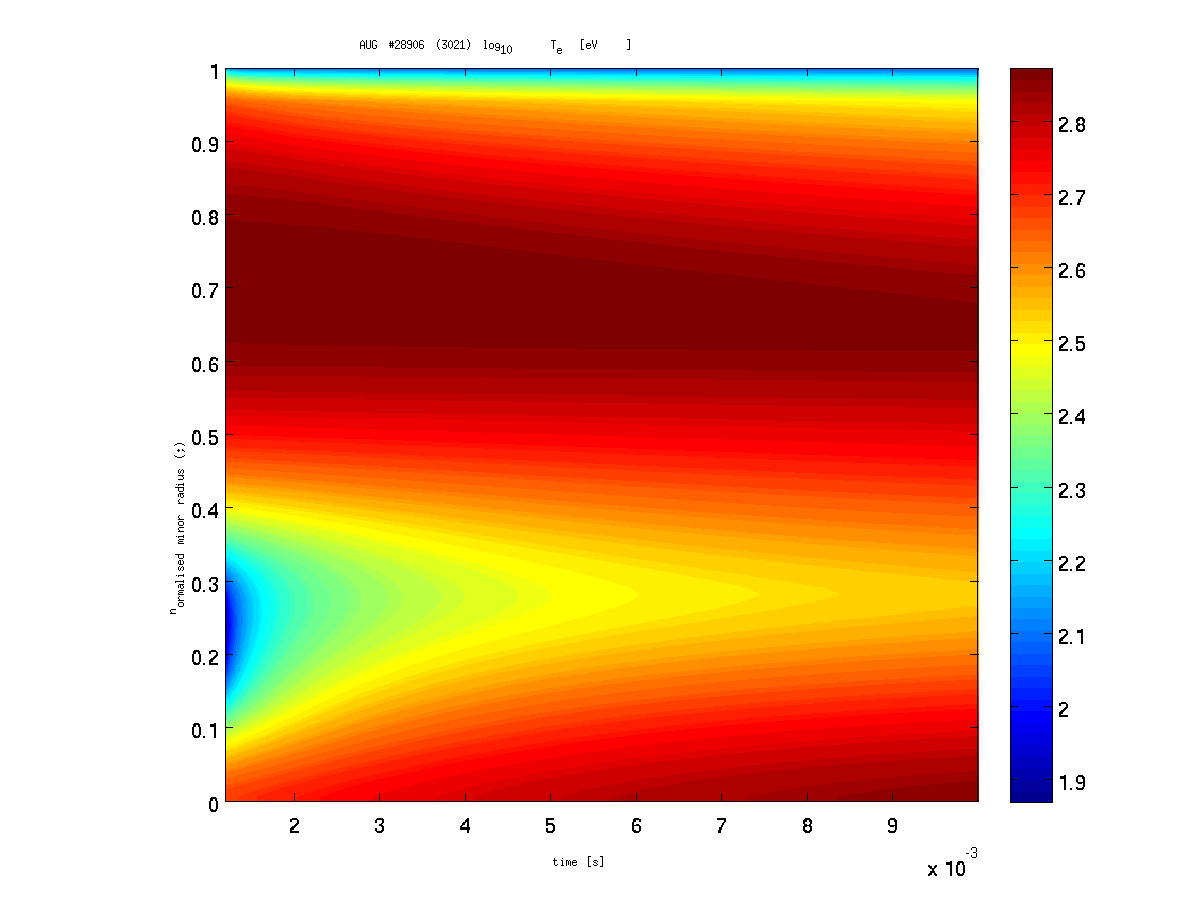


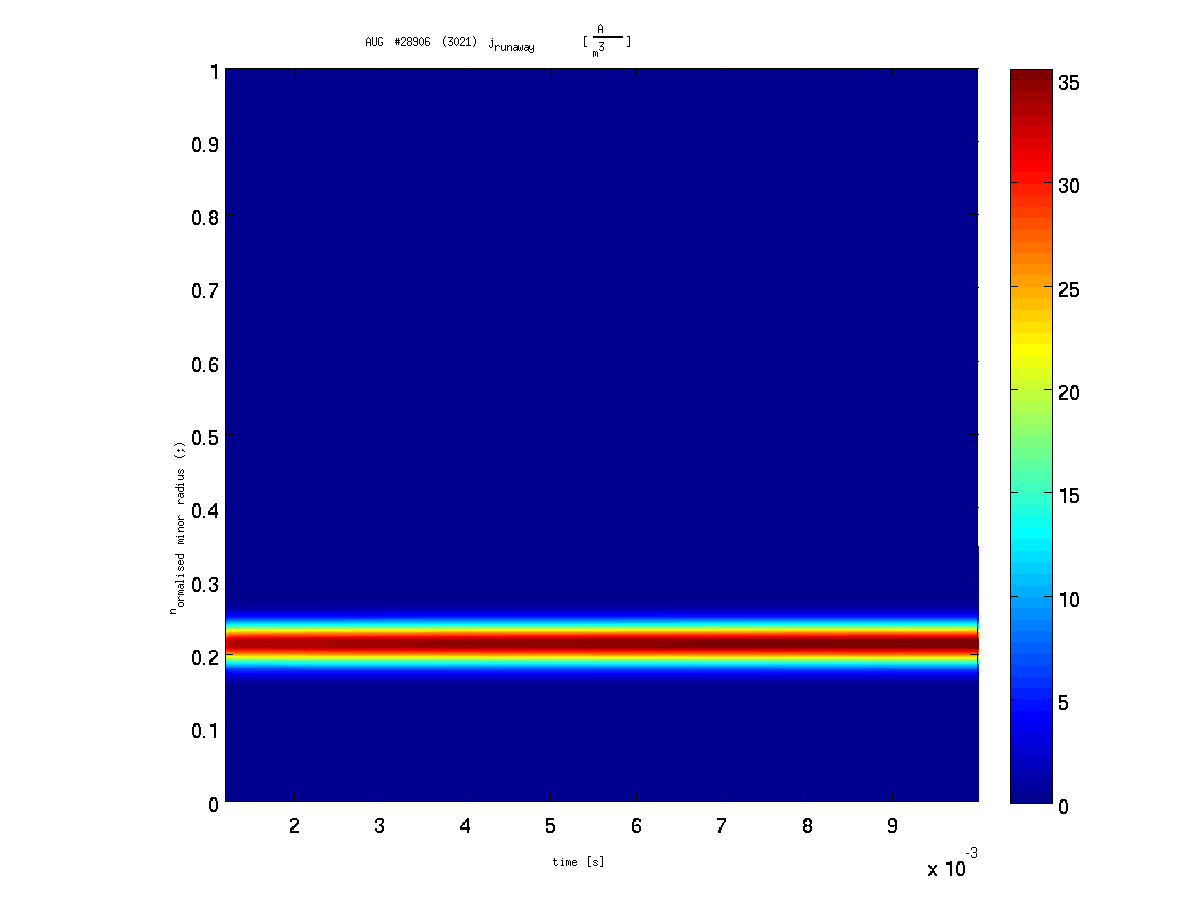
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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **euitm\_289063020** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  21 December 2016 |  |  |  |  | | --- | --- | --- | | **USER** | maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 7 | (*General parameters* in root) | | **run\_out** | 3020 | (*General parameters* in root) | | **tau** | 1E-5 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0.00 | (*Times* in root) | | **tend** | 0.00217 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | -1.5E8 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.5 | | |  |  | | --- | --- | | heating | | | **WTOT** | -1.0E8 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.5 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.2.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 311 | Toroidicity: OFF, Avalanche: linear, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | | **Crashed at 0.0012**  **see 3021** | |





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| |  |  | | --- | --- | | **euitm\_289063021** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  21 December 2016 |  |  |  |  | | --- | --- | --- | | **USER** | maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 3020 | (*General parameters* in root) | | **run\_out** | 3021 | (*General parameters* in root) | | **tau** | 1E-5 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0.00118 | (*Times* in root) | | **tend** | 0.01 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | 0.0 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.2 | | |  |  | | --- | --- | | heating | | | **WTOT** | 0.0 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.2 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.2.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 311 | Toroidicity: OFF, Avalanche: linear, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | | Input from [euitm\_2890630](#_toc4406)20, heat drain turned off | |





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| |  |  | | --- | --- | | **euitm\_289063100** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  16 March 2017 |  |  |  |  | | --- | --- | --- | | **USER** | g2maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 7 | (*General parameters* in root) | | **run\_out** | 3100 | (*General parameters* in root) | | **tau** | 1E-4 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0 | (*Times* in root) | | **tend** | 0.1 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | -1.4E8 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.2 | | |  |  | | --- | --- | | heating | | | **WTOT** | -1.0E8 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.2 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.2.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 1011 | Toroidicity: ON, Avalanche: OFF, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | | First run on MARCONI  crash at 0.0003 | |

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| |  |  | | --- | --- | | **euitm\_289063102** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  16 March 2017 |  |  |  |  | | --- | --- | --- | | **USER** | g2maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 7 | (*General parameters* in root) | | **run\_out** | 3102 | (*General parameters* in root) | | **tau** | 1E-6 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0 | (*Times* in root) | | **tend** | 0.1 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | -1.4E8 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.2 | | |  |  | | --- | --- | | heating | | | **WTOT** | -1.0E8 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.2 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.2.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 1011 | Toroidicity: ON, Avalanche: OFF, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | | 3100 with higher time resolution | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **euitm\_289063104** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  22 March 2017 |  |  |  |  | | --- | --- | --- | | **USER** | g2maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 7 | (*General parameters* in root) | | **run\_out** | 3104 | (*General parameters* in root) | | **tau** | 1E-6 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0 | (*Times* in root) | | **tend** | 0.1 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | -1.3E8 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.4 | | |  |  | | --- | --- | | heating | | | **WTOT** | -1.0E8 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.4 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.2.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 311 | Toroidicity: OFF, Avalanche: linear, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | | Crashed at 0.000951 s | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **euitm\_289063105** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  22 March 2017 |  |  |  |  | | --- | --- | --- | | **USER** | g2maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 3104 | (*General parameters* in root) | | **run\_out** | 3105 | (*General parameters* in root) | | **tau** | 1E-5 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0.000950 | (*Times* in root) | | **tend** | 0.01 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | 0.0 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.4 | | |  |  | | --- | --- | | heating | | | **WTOT** | 0.0 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.4 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.2.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 311 | Toroidicity: OFF, Avalanche: linear, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | | !Non-physical dataset!  2 GA/m² runaway, oscillating runaway current  running terminated | |

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| |  |  | | --- | --- | | **euitm\_289063106** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  23 March 2017 |  |  |  |  | | --- | --- | --- | | **USER** | g2maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 3104 | (*General parameters* in root) | | **run\_out** | 3106 | (*General parameters* in root) | | **tau** | 1E-6 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0.000950 | (*Times* in root) | | **tend** | 0.001 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | 0.0 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.4 | | |  |  | | --- | --- | | heating | | | **WTOT** | 0.0 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.4 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.2.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 1211 | Toroidicity: ON, Avalanche: linear+threshold, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | |  | |

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| |  |  | | --- | --- | | **euitm\_289063107** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  22 March 2017 |  |  |  |  | | --- | --- | --- | | **USER** | g2maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 3104 | (*General parameters* in root) | | **run\_out** | 3107 | (*General parameters* in root) | | **tau** | 1E-5 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0.000940 | (*Times* in root) | | **tend** | 0.01 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | 0.0 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.4 | | |  |  | | --- | --- | | heating | | | **WTOT** | 0.0 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.4 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.2.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 311 | Toroidicity: OFF, Avalanche: linear, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | |  | |

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| |  |  | | --- | --- | | **euitm\_289063109** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  22 March 2017 |  |  |  |  | | --- | --- | --- | | **USER** | g2maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 3104 | (*General parameters* in root) | | **run\_out** | 3109 | (*General parameters* in root) | | **tau** | 1E-5 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0.000950 | (*Times* in root) | | **tend** | 0.01 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | 0.0 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.4 | | |  |  | | --- | --- | | heating | | | **WTOT** | 0.0 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.4 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.2.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 1211 | Toroidicity: ON, Avalanche: linear+threshold, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | | Same like euitm\_289063107, but different runaway modelling | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **euitm\_289063202** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  22 March 2017 |  |  |  |  | | --- | --- | --- | | **USER** | g2maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 7 | (*General parameters* in root) | | **run\_out** | 3202 | (*General parameters* in root) | | **tau** | 1E-5 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0.00 | (*Times* in root) | | **tend** | 3e-2 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | 0.0 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.4 | | |  |  | | --- | --- | | heating | | | **WTOT** | 0.0 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.4 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.3.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 311 | Toroidicity: OFF, Avalanche: linear, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | | crashy | |

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| |  |  | | --- | --- | | **euitm\_template** | **keplerworkflows/tags/ets\_cc\_split r814**  **ETS\_WORKFLOW.xml**  XX December 2016 |  |  |  |  | | --- | --- | --- | | **USER** | maradi | (*General parameters* in root) | | **machine** | aug | (*General parameters* in root) | | **shot\_in** | 28906 | (*General parameters* in root) | | **run\_in** | 7 | (*General parameters* in root) | | **run\_out** | TEMPLATE | (*General parameters* in root) | | **tau** | 1E-6 | TAU | TAU\_OUTPUT (*BEFORE THE TIME EVOLUTION* composite actor) min\_tau: Minimum time step [s] | max\_tau: Maximum time step [s] (*Numerics* in root) | | **tbegin** | 0 | (*Times* in root) | | **tend** | 0.1 | (*Times* in root) |   gausiansources parameters  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / Gausian Sources / GaussianSourcesON. / gausiansources*  **Edit code parameters**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | currents | | | **JNITOT** | 0.0 | | **RCURR** | 0.0 | | **FWCURR** | 2.0 | | |  |  | | --- | --- | | composition | | | **AMN** | 2.0 | | **ZN** | 1.0 | | **ZION** | 1.0 | | | |  |  | | --- | --- | | heating\_el | | | **WTOT\_el** | 0.0 | | **RHEAT\_el** | 0.0 | | **FWHEAT\_el** | 0.2 | | |  |  | | --- | --- | | heating | | | **WTOT** | 0.0 | | **RHEAT** | 0.0 | | **FWHEAT** | 0.2 | | | |  |  | | --- | --- | | particles\_el | | | **STOT\_el** | 0.0 | | **RPART\_el** | 0.0 | | **FWPART\_el** | 1.0 | | |  |  | | --- | --- | | particles | | | **STOT** | 0.0 | | **RPART** | 0.0 | | **FWPART** | 1.0 | | |  | |  |  | | --- | --- | | momentum | | | **UTOT** | 0.0 | | **RMOM** | 0.0 | | **FWMOM** | 1.0 | |   Runaway Fluid parameters tags/4.10b.10\_1.2.0\_runaway\_fluid  *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_Runaway\_in** | true | Runaway Fluid turned ON | | **runafluid\_switch** | 311 | Toroidicity: OFF, Avalanche: linear, Dreicer: H&C (63) |   *CONVERGENCE  LOOP. / Update SOURCE and IMPURITY / HCDSources / HCDSourcesON. / HCD\_COREWithout internal params, i.e. all settings come as globalparameters set on an upper level / Distribution(one time slice distributionfuctionevaluation) / Elektron Fokker–Planckone time slice / Runaway electronsone time slice Runaway\_Fluid\_package*  **Configure**   |  |  |  | | --- | --- | --- | | **Use\_runafluid\_electric\_switch** | false | Electric field test module for Runaway Fluid turned OFF | | **runafluid\_electric\_field\_switch** | 1011 |  | | **runafluid\_electric\_field\_value** | 10 |  |  |  | | --- | | Template | |